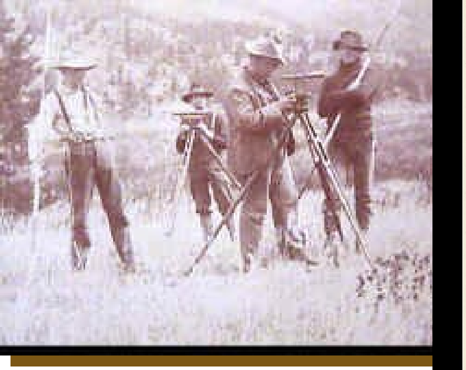
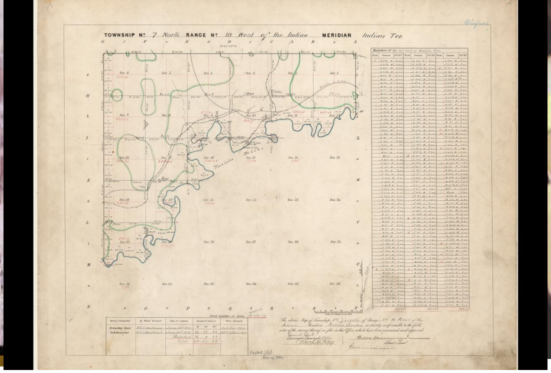


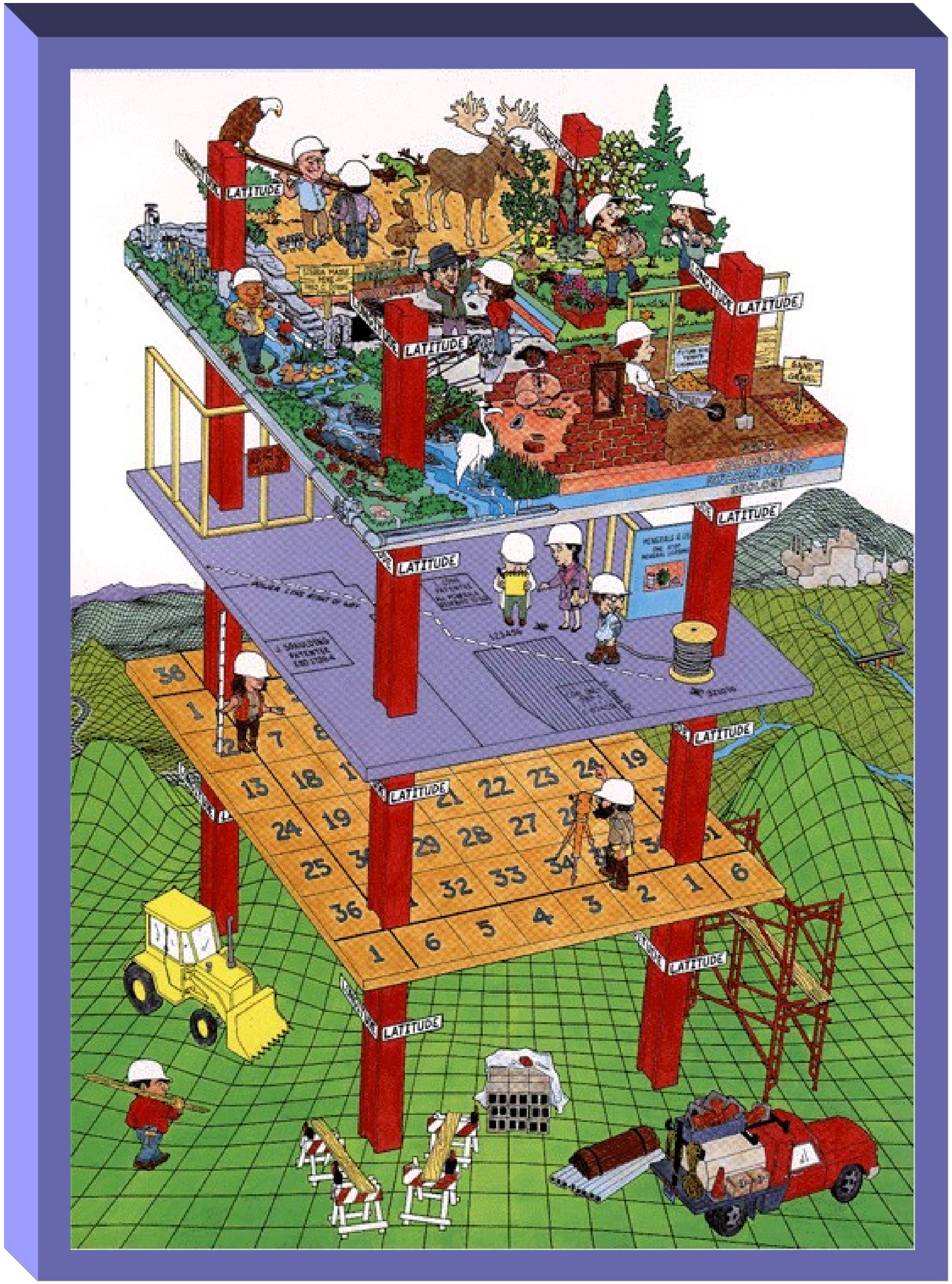


TOWNSHIP No. 7 North RANGE No. 10 West of the Indian MERIDIAN Indian Ter.

The National Integrated Land System (NILS)

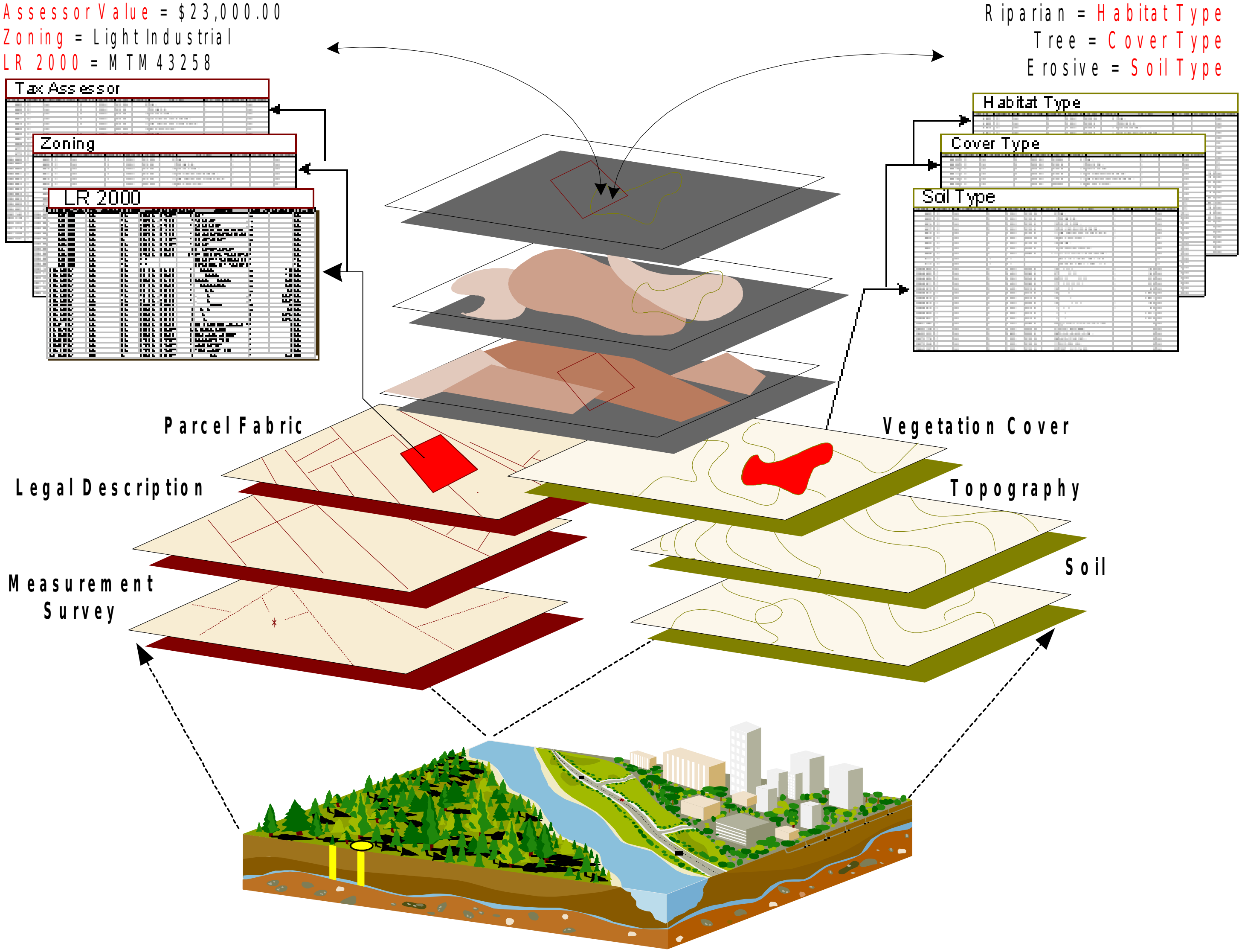
Agenda

- Overview of NILS
- Spatially Enabling other business applications using NILS
- Publication Data & Web Sites
- Summary


LATITUDE
LONGITUDE

1990’s Vision

NILS Vision



Assessor Value = $23,000.00
Zoning = Light Industrial
LR 2000 = MTM 43258

Tax Assessor
Zoning
LR 2000

Riparian = Habitat Type
Tree = Cover Type
Erosive = Soil Type

Habitat Type
Cover Type
Soil Type

Parcel Fabric
Legal Description
Measurement Survey

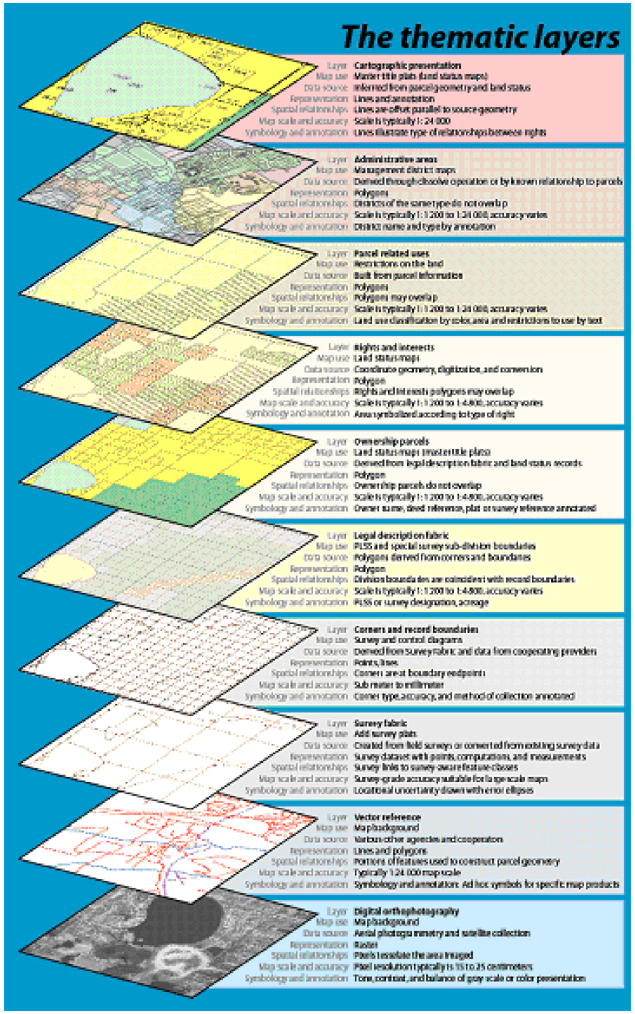
Vegetation Cover
Topography
Soil

What is NILS?

- The National Integrated Land System (NILS) is a joint project between the BLM and the USDA Forest Service in partnership with the states, counties, and private industry to provide business solutions for the management of cadastral records and land parcel information in a Geographic Information System (GIS) environment.

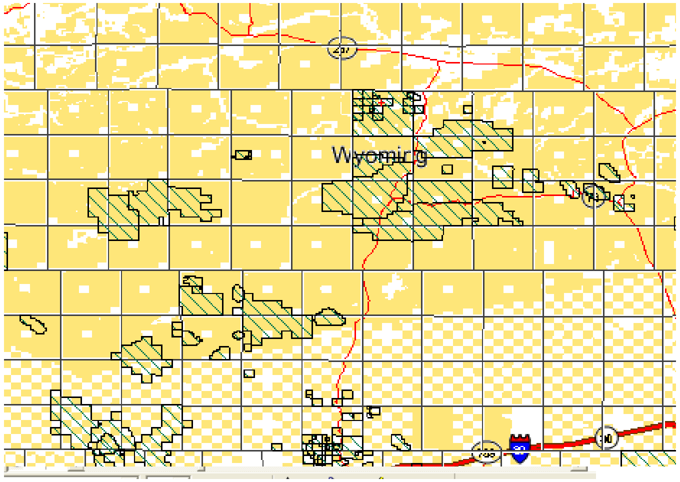
OMB Circular A-16 Describes Specific GIS Framework Data Layers and Assigns Agency Responsibility

- Geodetic Control
- Cadastral & Land Records
- Governmental Units
- Transportation
- Elevation and Bathymetry
- Hydrography
- Orthoimagery
    - Plus 27 others…



NILS Spatial Data Layers

- Land Survey Information
- Federal Land Stewardship
- Land & Mineral Use Records

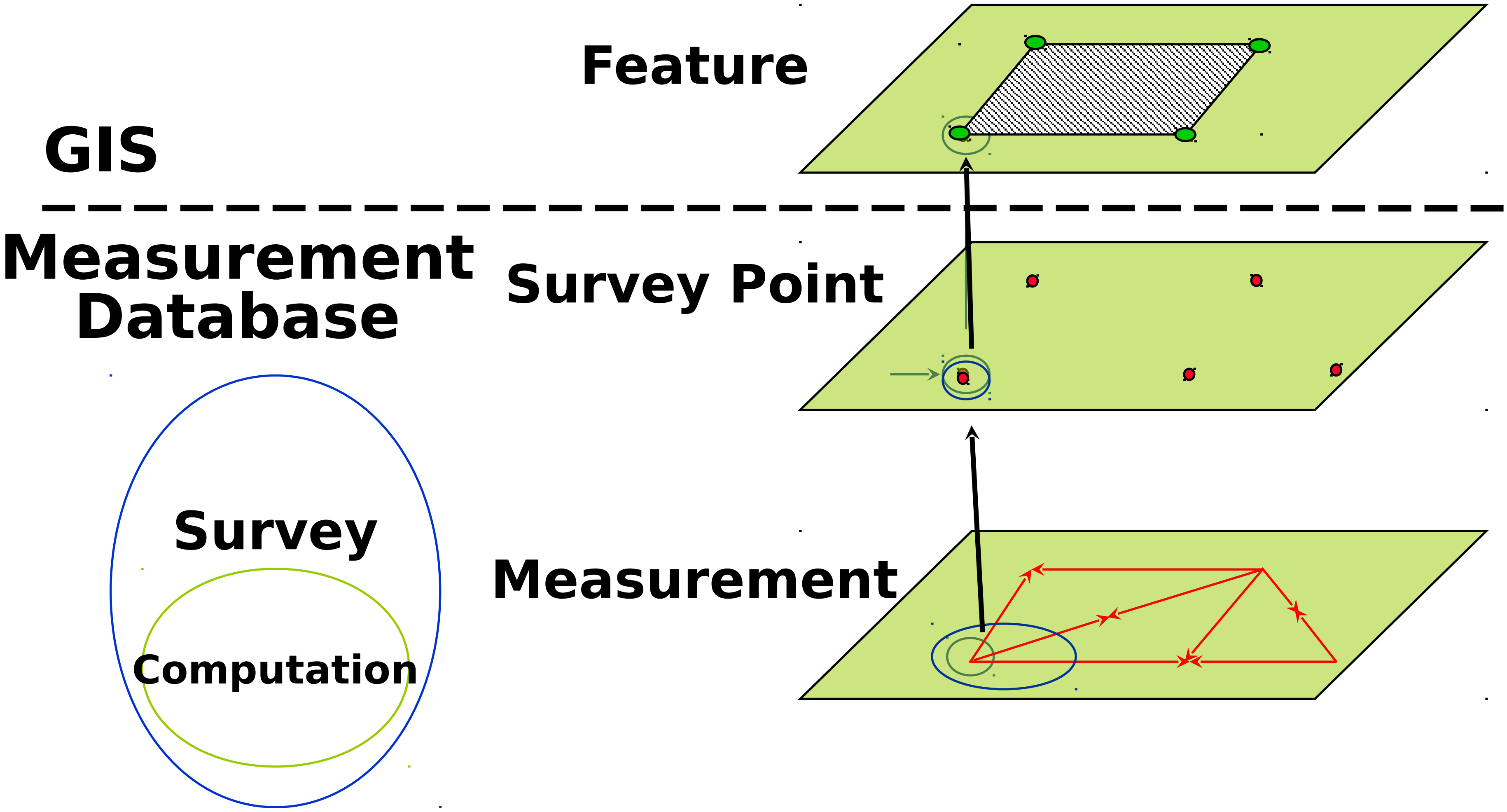


Serving National Spatial Data Layers for the BLM as directed by OMB Circular A-16

http://www.whitehouse.gov/omb/circulars/a016/a016_rev.html

BLM Facts and Figures

- BLM manages:
  - 262 million surface acres
  - 700 Million subsurface acres
- 130 million parcels
- >28,000 PLSS Townships
- ~ 250 survey and measurement users
- ~ 900 parcel management users
- USDA Forest Service manages 8.5 percent of U.S. land



GIS

Measurement Database

Feature

Survey Point

Measurement

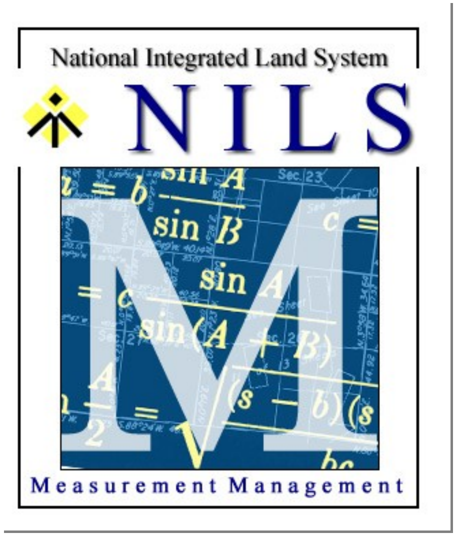
Survey

Computation

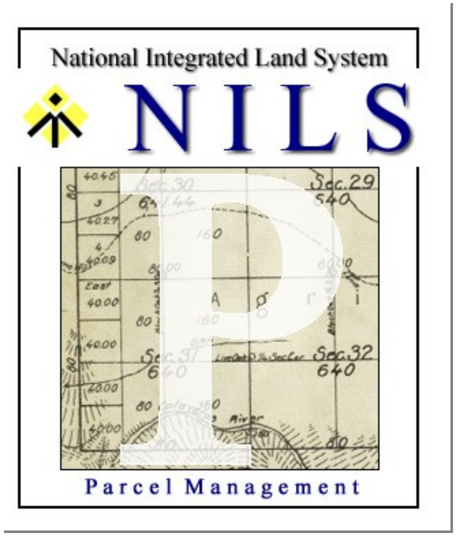
NILS Components

National Integrated Land System
NILS
S
Survey Management

Survey Management


National Integrated Land System
NILS
M
Measurement Management

Measurement Management

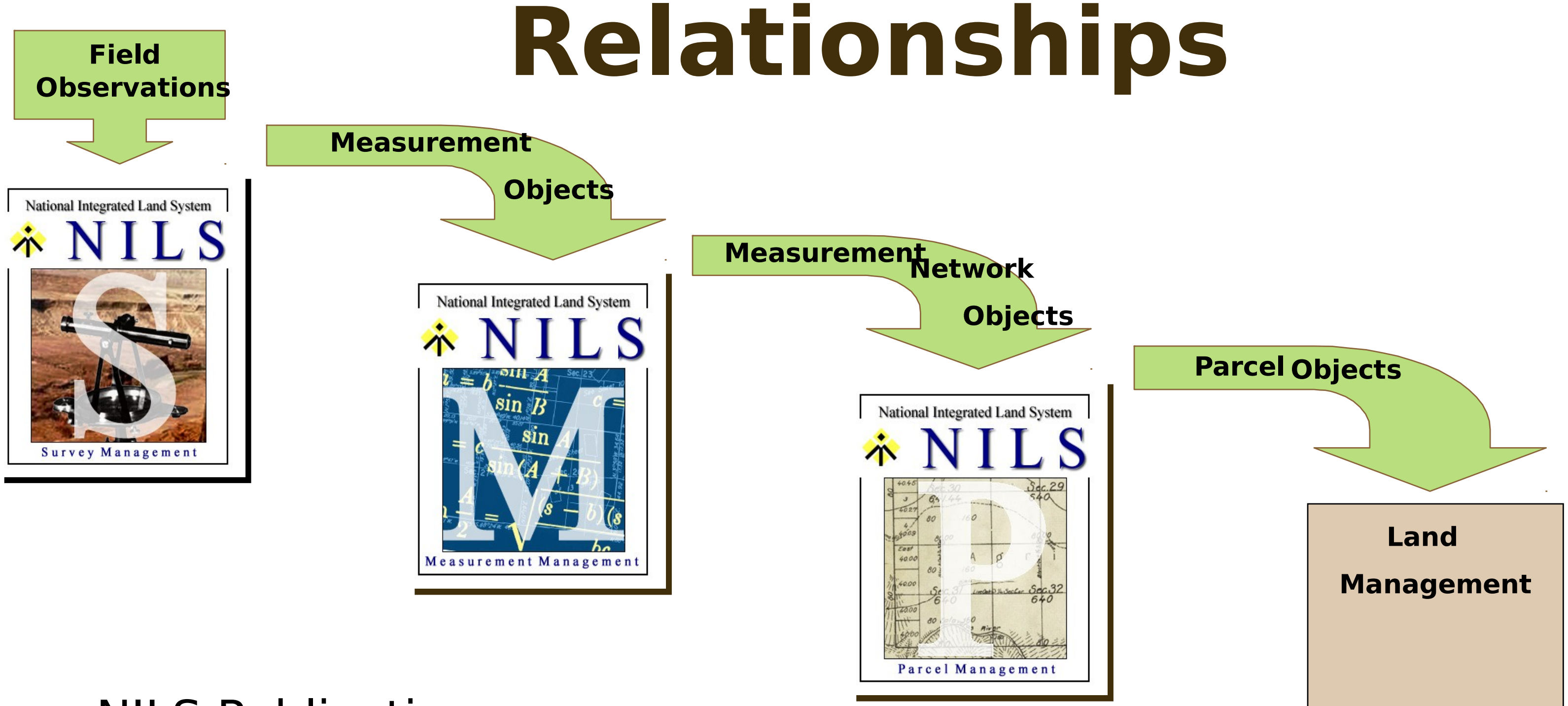

National Integrated Land System
NILS
P
Parcel Management

Parcel Management

National Integrated Land System
NILS
G
GeoCommunicator

GeoCommunicator

NILS Components Relationships


National Integrated Land System
NILS
Survey Management
National Integrated Land System
NILS
Measurement Management
National Integrated Land System
NILS
Parcel Management

Field Observations

Measurement Objects

Measurement Network Objects

Parcel Objects

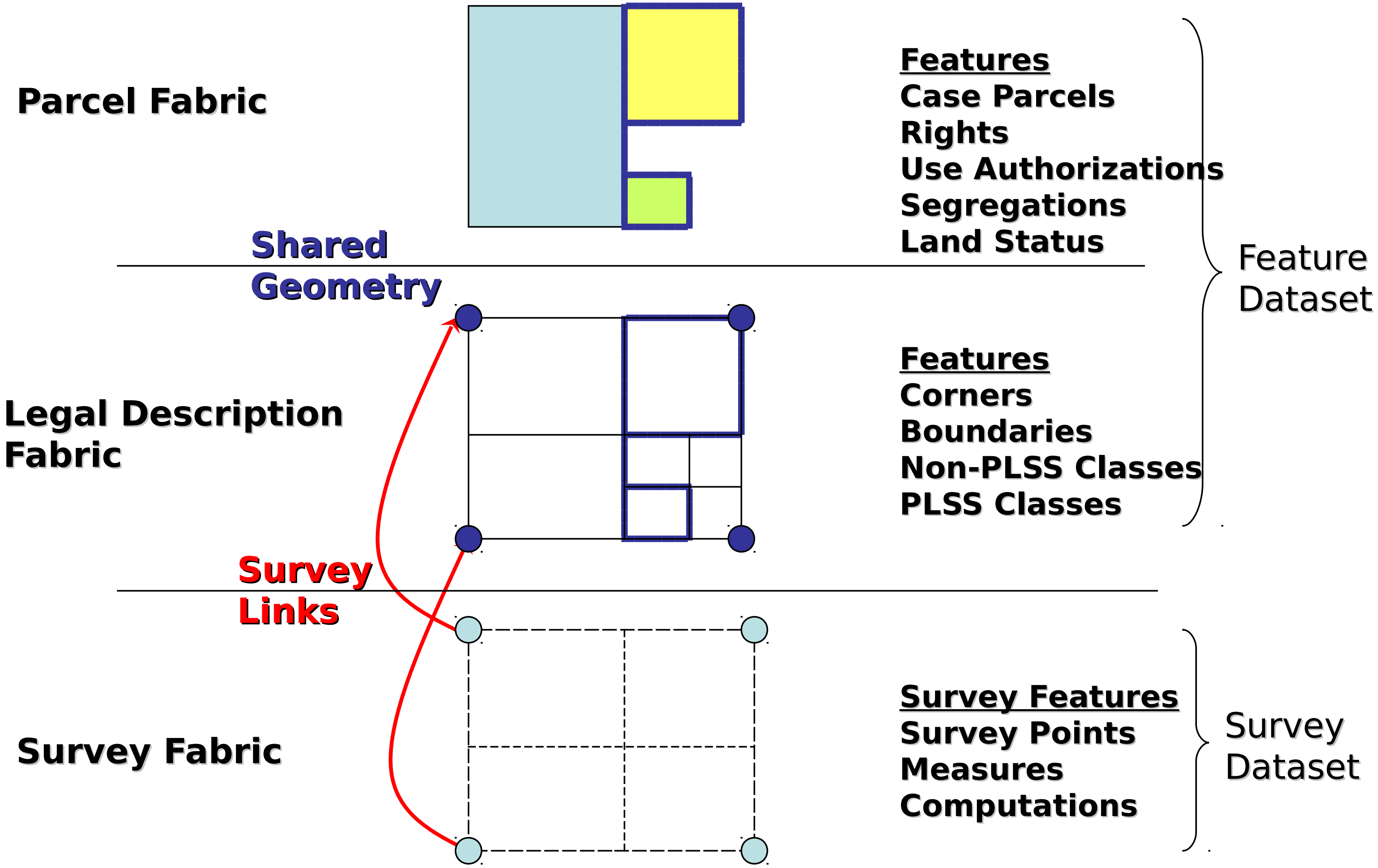
Land Management

NILS Publication

National Integrated Land System
NILS
GeoCommunicator

NILS Business Process WorkFlow

NILS Conceptual Data Model



Parcel Fabric

Features
Case Parcels
Rights
Use Authorizations
Segregations
Land Status

Shared Geometry

Feature Dataset

Legal Description Fabric

Features
Corners
Boundaries
Non-PLSS Classes
PLSS Classes

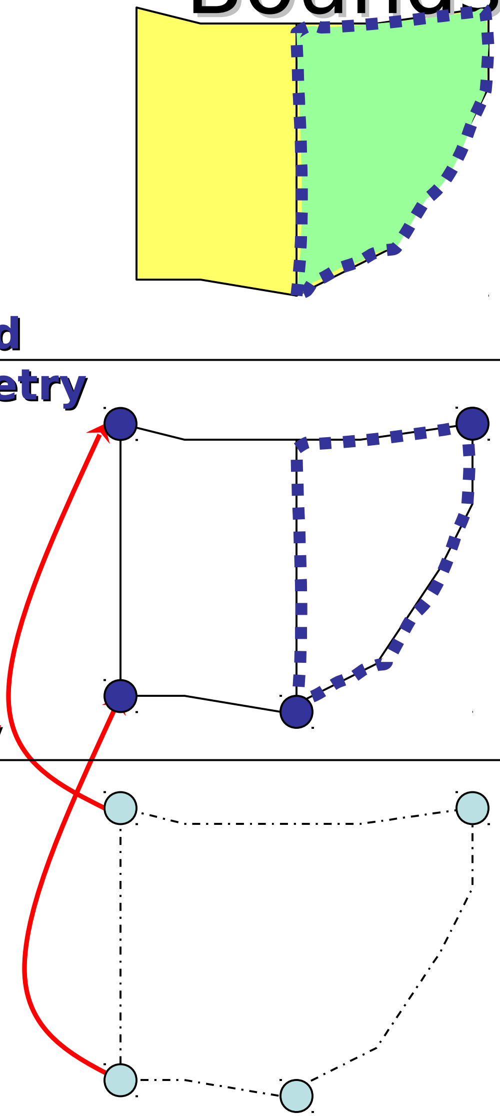
Survey Links

Survey Fabric

Survey Features
Survey Points
Measures
Computations

Survey Dataset

Conceptual Data Model (Metes & Bounds)



Parcel Fabric

Features
Case Parcels
Rights
Use Authorizations
Land Status

Shared Geometry

Legal Description Fabric

Features
Corners
Boundaries
Divisions
(Non-PLSS Classes)

Feature Dataset

Survey Links

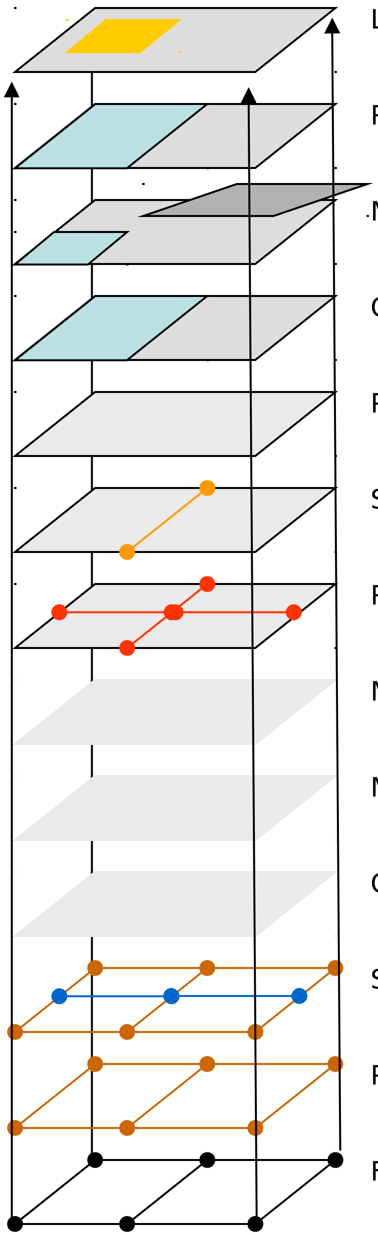
Survey Fabric

Survey Features
Survey Points
Measures
Computations

Survey Dataset

NILS

Building a common cadastral data model and core land records management tools with object-oriented technology



Parcel Management

Measurement Management

Survey Management

Land status

Rights & Segregatio

Mining claim & Use authorization

Case

PLSS Township

Special Survey

Record boundary

Measured Coordinate

Monument

Corners

Section Subdivision

Plat measurements

Field measurements

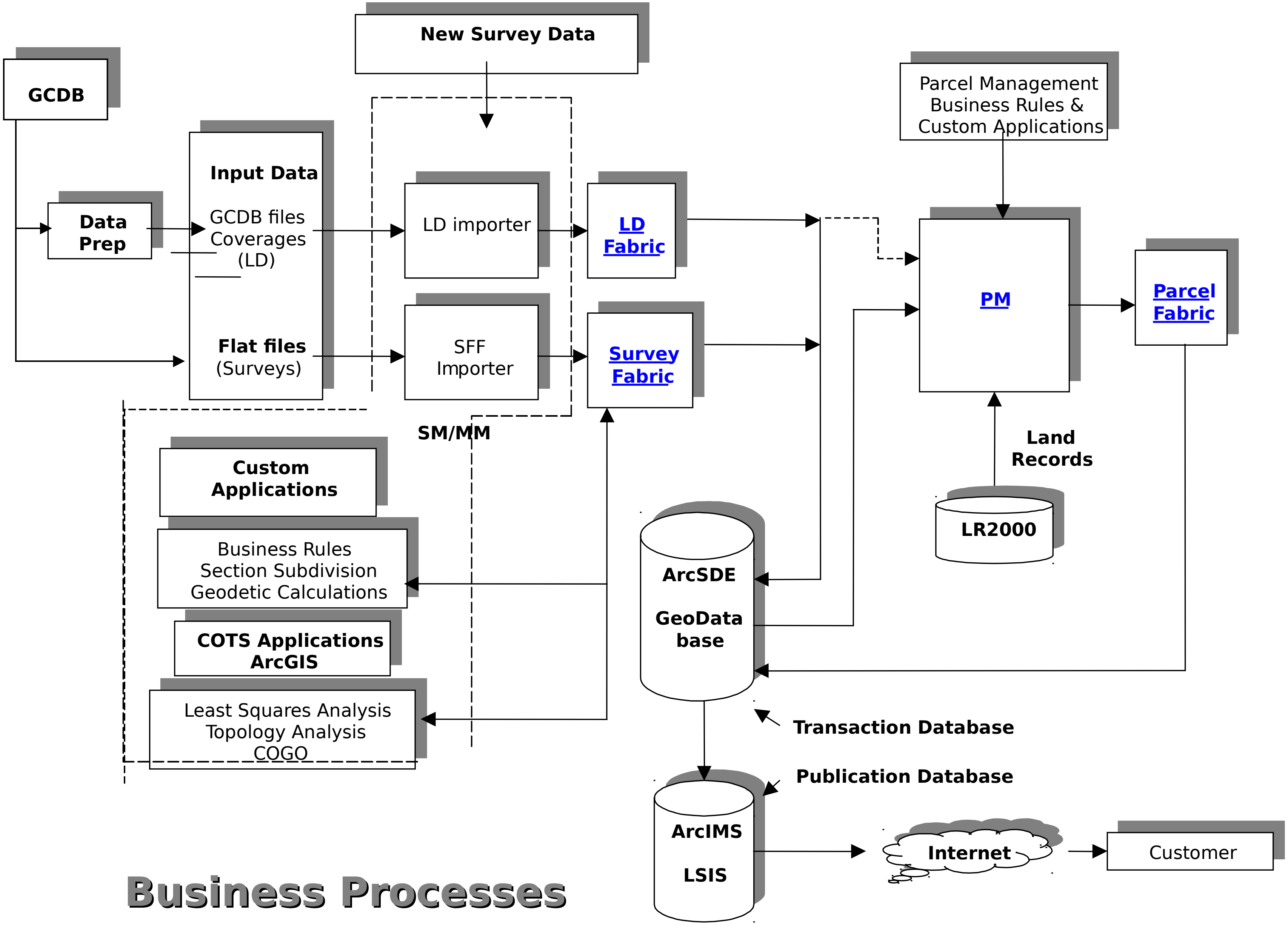
NILS

- NILS comprises transactional and publication components:
  - The ArcGIS implementation for creating and maintaining Survey, LD, and Parcel data is the *transactional* component
  - The ArcIMS implementation for viewing, querying, and downloading data is the *publication* component

Transactional Component:

Automated Workflow Management

Business Processes



New Survey Data

GCDB

Data Prep

Input Data

GCDB files
Coverages
(LD)

Flat files
(Surveys)

LD importer

SFF
Importer

SM/MM

LD Fabric

Survey Fabric

Parcel Management
Business Rules &
Custom Applications

PM

Parcel Fabric

Land Records

LR2000

Custom Applications

Business Rules
Section Subdivision
Geodetic Calculations

COTS Applications
ArcGIS

Least Squares Analysis
Topology Analysis
COGO

ArcSDE

GeoData base

Transaction Database

Publication Database

ArcIMS

LSIS

Internet

Customer

NILS General Requirements - Workflow

Job initiated

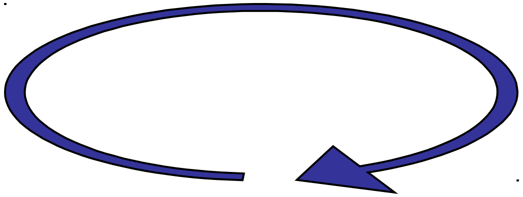
↓

Workflow 1:
Step 1
Step 2.1
Step 2.2
Step 3 (Edit Task)
Step 4
Step 5
Step 6 (Edit Task)

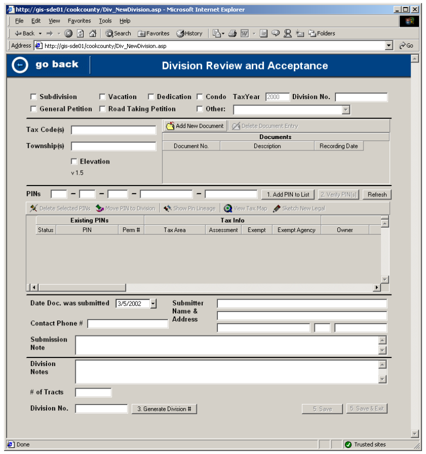
↓

Job closed

- Users step through Workflows iteratively

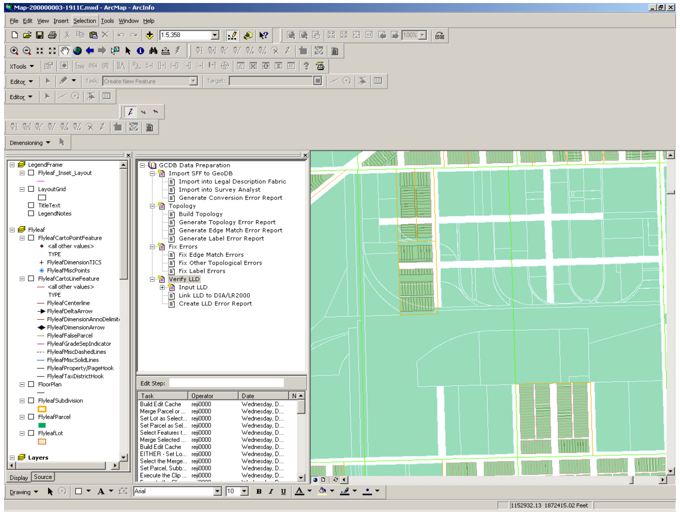


- Interaction is with relevant custom forms or applications at each step


http://gis-sde01/cookcounty/Div_NewDivision.asp - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History Folders
Address http://gis-sde01/cookcounty/Div_NewDivision.asp Go
go back
Division Review and Acceptance
☐ Subdivision ☐ Vacation ☐ Dedication ☐ Condo
☐ General Petition ☐ Road Taking Petition ☐ Other:
Division No.
Tax Code(s)
Township(s)
☐ Elevation
v 1.5
Add New Document
Delete Document Entry
Documents
Document No. Description Recording Date
PINs
1. Add PIN to List
2. Verify PIN(s)
Refresh
Delete Selected PINs
Move PIN to Division
Show Pin Lineage
View Tax Map
Sketch New Legal
Existing PINs
Status PIN Perm #
Tax Info
Tax Area Assessment Exempt Exempt Agency Owner
Submitter Name & Address
Contact Phone #
Submission Note
Division Notes
# of Tracts
Division No.
3. Generate Division #
5. Save
5. Save & Exit
Done
Trusted sites

TaxYear 2000

Date Doc. was submitted 3/5/2002


Map-200000003-1911C.mxd - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:5,358
XTools
Editor
Task: Create New Feature
Target:
Dimensioning
LegendFrame
Flyleaf_Inset_Layout
LayoutGrid
TitleText
LegendNotes
Flyleaf
FlyleafCartoPointFeature
<all other values>
TYPE
FlyleafDimensionTICS
FlyleafMiscPoints
FlyleafCartoLineFeature
<all other values>
TYPE
FlyleafCenterline
FlyleafDeltaArrow
FlyleafDimensionAnnoDelimit
FlyleafDimensionArrow
FlyleafFalseParcel
FlyleafGradeSepIndicator
FlyleafMiscDashedLines
FlyleafMiscSolidLines
FlyleafProperty/PageHook
FlyleafTaxDistrictHook
FloorPlan
FlyleafSubdivision
FlyleafParcel
FlyleafLot
Layers
Display Source
Drawing
Arial 10
1152932.13 1872415.02 Feet

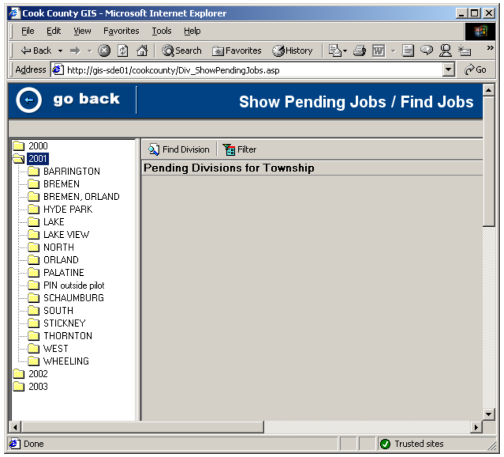
GCDB Data Preparation
  Import SFF to GeoDB
    Import into Legal Description Fabric
    Import into Survey Analyst
    Generate Conversion Error Report
  Topology
    Build Topology
    Generate Topology Error Report
    Generate Edge Match Error Report
    Generate Label Error Report
  Fix Errors
    Fix Edge Match Errors
    Fix Other Topological Errors
    Fix Label Errors
  Verify LLD
    Input LLD
    Link LLD to DIA/LR2000
    Create LLD Error Report

Edit Step:

Task	Operator	Date
Build Edit Cache	reji0000	Wednesday, D...
Merge Parcel or ...	reji0000	Wednesday, D...
Set Lot as Select...	reji0000	Wednesday, D...
Set Parcel as Sel...	reji0000	Wednesday, D...
Select Features t...	reji0000	Wednesday, D...
Merge Selected ...	reji0000	Wednesday, D...
Build Edit Cache	reji0000	Wednesday, D...
EITHER - Set Lo...	reji0000	Wednesday, D...
Select the Merge...	reji0000	Wednesday, D...
Set Parcel, Subb...	reji0000	Wednesday, D...
Execute the Clip ...	reji0000	Wednesday, D...

NILS General Requirements Workflow

Workflow Status Tracking



http://gis-sde01/cookcounty/Div_ShowPendingJobs.asp

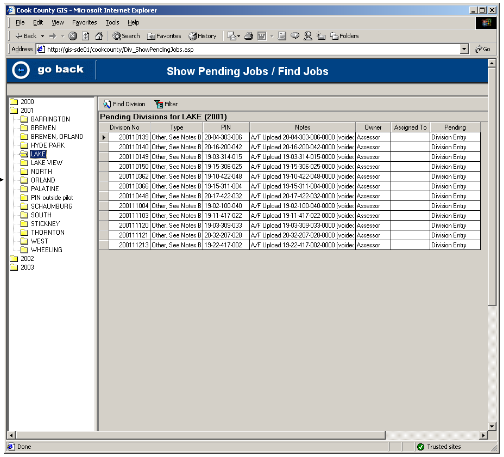
Show Pending Jobs / Find Jobs

Pending Divisions for Township

- 2000
- 2001
  - BARRINGTON
  - BREMEN
  - BREMEN, ORLAND
  - HYDE PARK
  - LAKE
  - LAKE VIEW
  - NORTH
  - ORLAND
  - PALATINE
  - PIN outside pilot
  - SCHAUMBURG
  - SOUTH
  - STICKNEY
  - THORNTON
  - WEST
  - WHEELING
- 2002
- 2003

Cook County GIS - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History
Address
go back
Find Division
Filter
Done
Trusted sites

1. User searches jobs by date and region



http://gis-sde01/cookcounty/Div_ShowPendingJobs.asp

Show Pending Jobs / Find Jobs

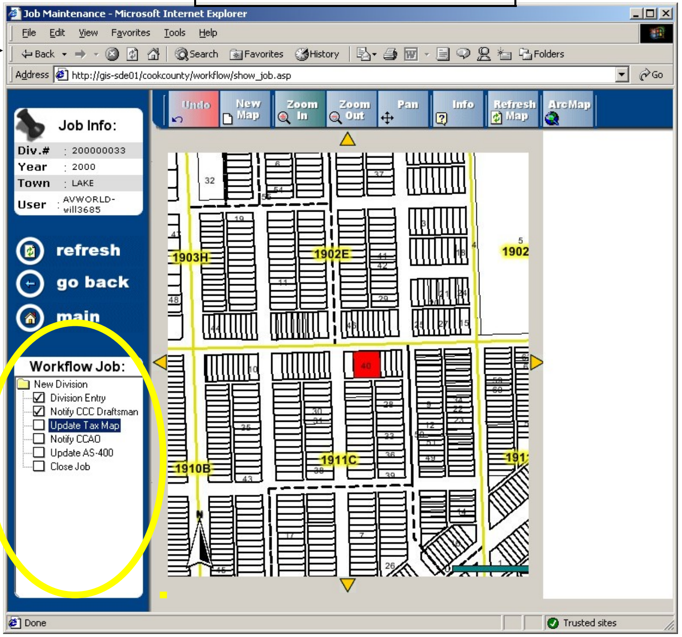
Pending Divisions for LAKE (2001)

Division No	Type	PIN	Notes	Owner	Assigned To	Pending
200110139	Other, See Notes B	20-04-303-006	A/F Upload 20-04-303-006-0000 (voide	Assessor		Division Entry
200110140	Other, See Notes B	20-16-200-042	A/F Upload 20-16-200-042-0000 (voide	Assessor		Division Entry
200110149	Other, See Notes B	19-03-314-015	A/F Upload 19-03-314-015-0000 (voide	Assessor		Division Entry
200110150	Other, See Notes B	19-15-306-025	A/F Upload 19-15-306-025-0000 (voide	Assessor		Division Entry
200110362	Other, See Notes B	19-10-422-048	A/F Upload 19-10-422-048-0000 (voide	Assessor		Division Entry
200110366	Other, See Notes B	19-15-311-004	A/F Upload 19-15-311-004-0000 (voide	Assessor		Division Entry
200110448	Other, See Notes B	20-17-422-032	A/F Upload 20-17-422-032-0000 (voide	Assessor		Division Entry
200111004	Other, See Notes B	19-02-100-040	A/F Upload 19-02-100-040-0000 (voide	Assessor		Division Entry
200111103	Other, See Notes B	19-11-417-022	A/F Upload 19-11-417-022-0000 (voide	Assessor		Division Entry
200111120	Other, See Notes B	19-03-309-033	A/F Upload 19-03-309-033-0000 (voide	Assessor		Division Entry
200111121	Other, See Notes B	20-32-207-028	A/F Upload 20-32-207-028-0000 (voide	Assessor		Division Entry
200111213	Other, See Notes B	19-22-417-002	A/F Upload 19-22-417-002-0000 (voide	Assessor		Division Entry

Cook County GIS - Microsoft Internet Explorer
go back
Find Division
Filter
Done
Trusted sites

2. User selects the job of interest

3. The user is presented with the job, including it’s status.



http://gis-sde01/cookcounty/workflow/show_job.asp

Job Info:

Div.# : 200000033
Year : 2000
Town : LAKE
User : AVWORLD-will3685

Workflow Job:

- New Division
  - ☑ Division Entry
  - ☑ Notify CCC Draftsman
  - ☐ Update Tax Map
  - ☐ Notify CCAO
  - ☐ Update AS-400
  - ☐ Close Job

Job Maintenance - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History Folders
Address
Go
Undo
New Map
Zoom In
Zoom Out
Pan
Info
Refresh Map
ArcMap
refresh
go back
main
1903H
1902E
1902
1910B
1911C
N
Done
Trusted sites

Status is indicated by check boxes here

NILS Task Assistant

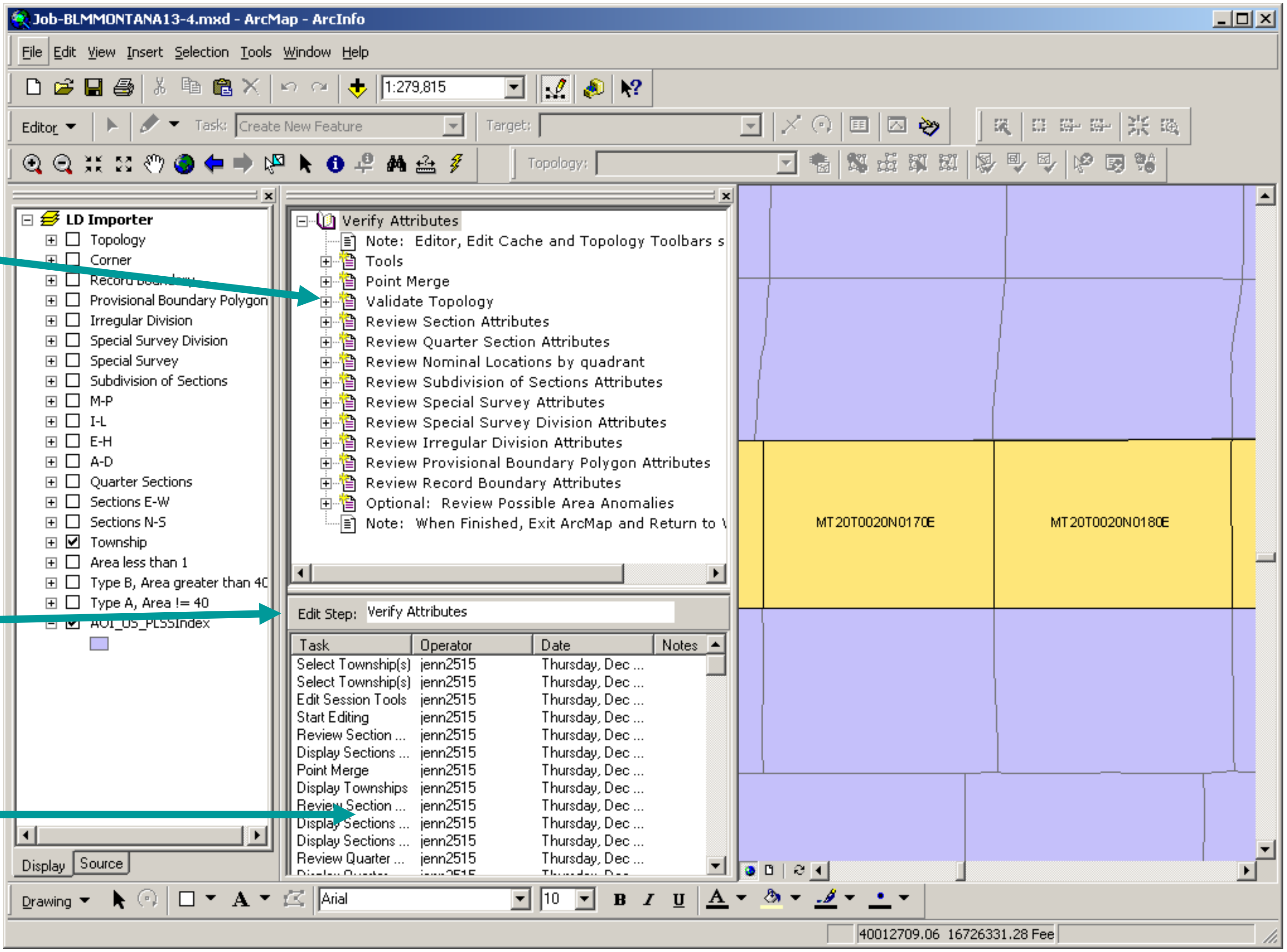
- Task assistant guides GIS users through steps in ArcMap for querying and maintaining data
- Provides consistency in the completion of data management tasks
- Shortens the ArcMap learning curve

Task Assistant

Task Assistant

Current Step

Job Log


Job-BLMMONTANA13-4.mxd - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:279,815
Editor
Task: Create New Feature
Target:
Topology:
MT20T0020N0170E
MT20T0020N0180E
Display Source
Drawing
Arial
10
40012709.06 16726331.28 Feet

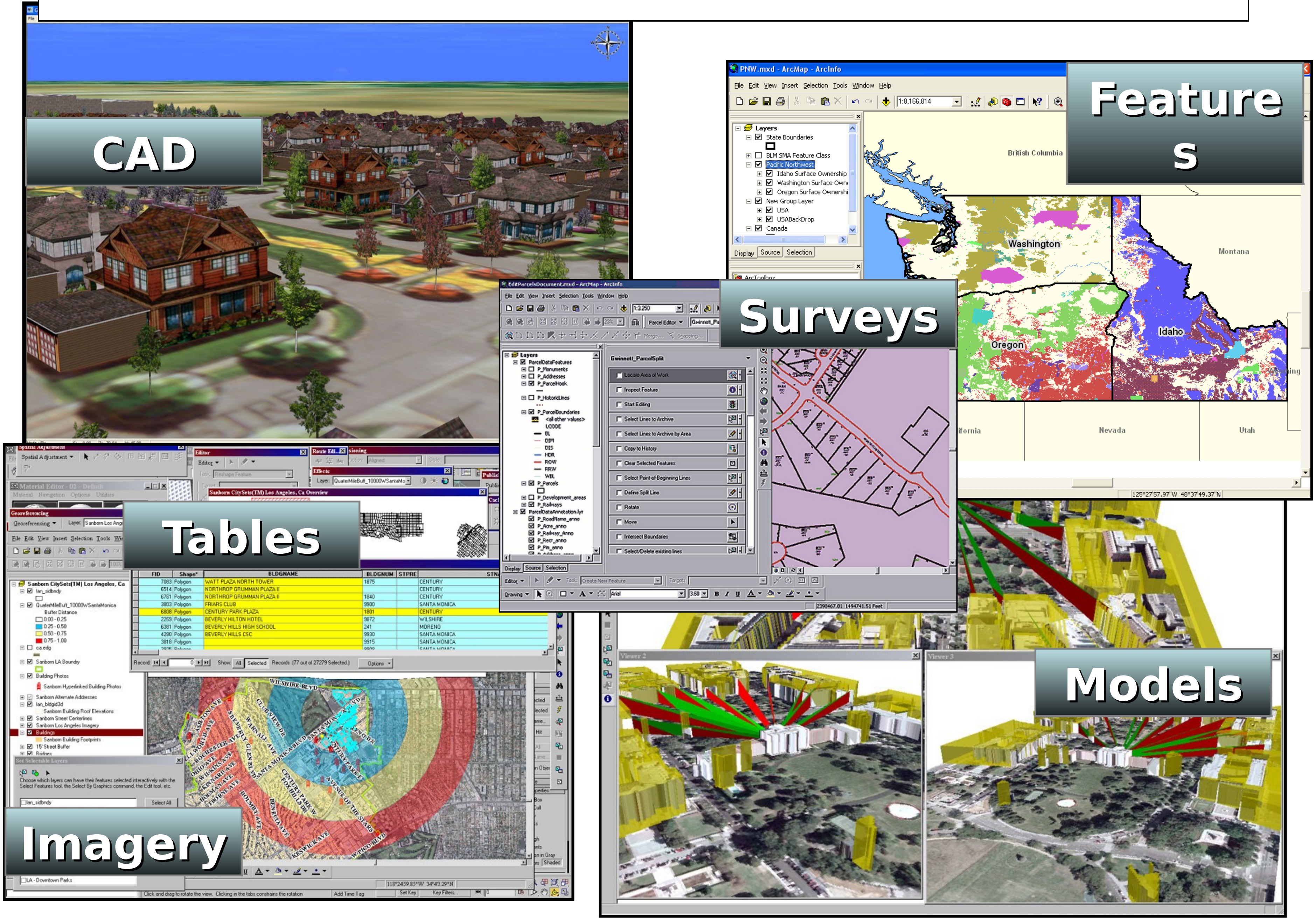
- LD Importer
  - ☐ Topology
  - ☐ Corner
  - ☐ Record Boundary
  - ☐ Provisional Boundary Polygon
  - ☐ Irregular Division
  - ☐ Special Survey Division
  - ☐ Special Survey
  - ☐ Subdivision of Sections
  - ☐ M-P
  - ☐ I-L
  - ☐ E-H
  - ☐ A-D
  - ☐ Quarter Sections
  - ☐ Sections E-W
  - ☐ Sections N-S
  - ☑ Township
  - ☐ Area less than 1
  - ☐ Type B, Area greater than 40
  - ☐ Type A, Area != 40
  - ☑ AOI_US_PLSSIndex

- Verify Attributes
  - Note: Editor, Edit Cache and Topology Toolbars s
  - Tools
  - Point Merge
  - Validate Topology
  - Review Section Attributes
  - Review Quarter Section Attributes
  - Review Nominal Locations by quadrant
  - Review Subdivision of Sections Attributes
  - Review Special Survey Attributes
  - Review Special Survey Division Attributes
  - Review Irregular Division Attributes
  - Review Provisional Boundary Polygon Attributes
  - Review Record Boundary Attributes
  - Optional: Review Possible Area Anomalies
  - Note: When Finished, Exit ArcMap and Return to \

Edit Step: Verify Attributes

Task	Operator	Date	Notes
Select Township(s)	jenn2515	Thursday, Dec ...	
Select Township(s)	jenn2515	Thursday, Dec ...	
Edit Session Tools	jenn2515	Thursday, Dec ...	
Start Editing	jenn2515	Thursday, Dec ...	
Review Section ...	jenn2515	Thursday, Dec ...	
Display Sections ...	jenn2515	Thursday, Dec ...	
Point Merge	jenn2515	Thursday, Dec ...	
Display Townships	jenn2515	Thursday, Dec ...	
Review Section ...	jenn2515	Thursday, Dec ...	
Display Sections ...	jenn2515	Thursday, Dec ...	
Display Sections ...	jenn2515	Thursday, Dec ...	
Review Quarter ...	jenn2515	Thursday, Dec ...	

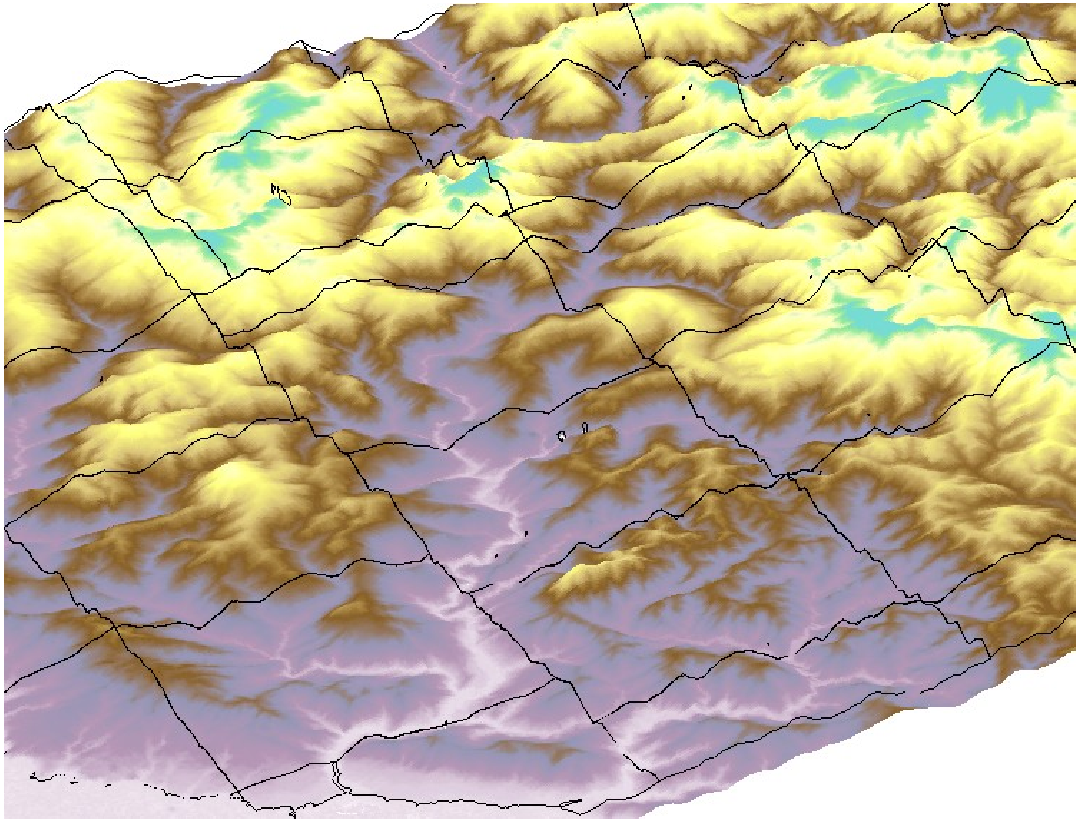
GIS Combines Data from Many Sources


CAD
Features
Surveys
Tables
Imagery
Models

Modernizing the maintenance of the PLSS

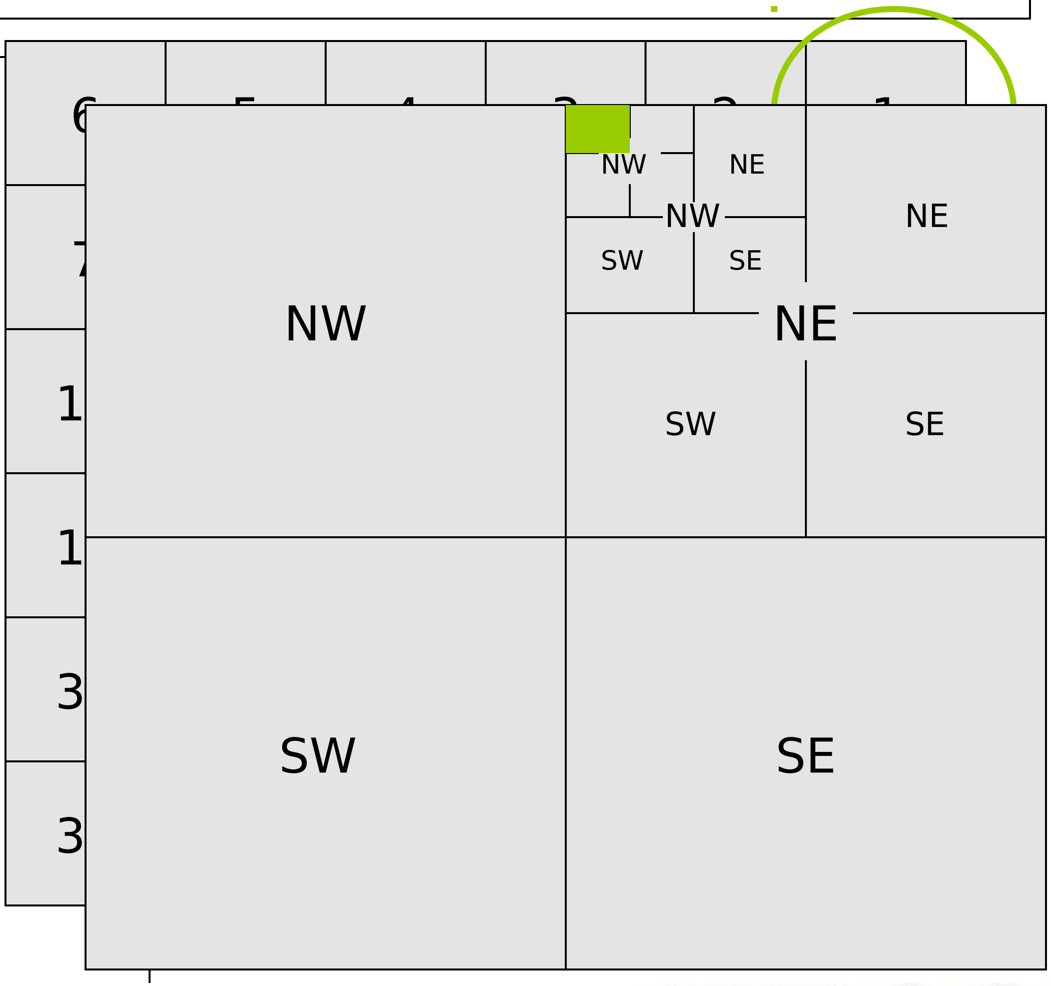
PLSS - Townships

- Tier and Ranges
- Meridians and parallels

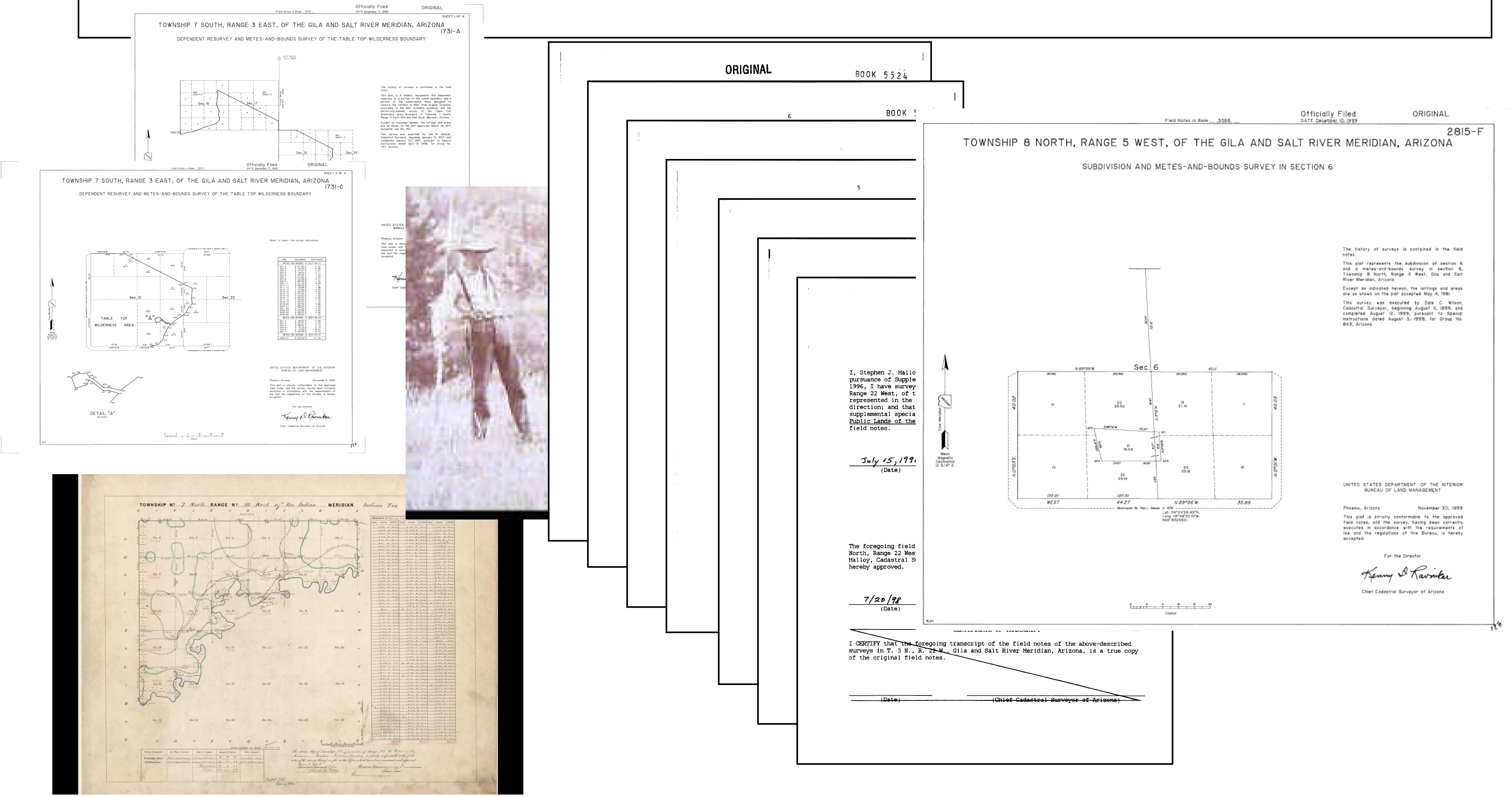


PLSS - Sections

- Township
- Section
- Quarter section
- Quarter-Quarter section
- Minor section subdivision


6
7
1
1
3
3
NW
NE
NW
SW
SE
NE
NE
SW
SE
NW
SW
SE

PLSS Process



Field Notes in Book 5511 Officially Filed DATE December 17, 1999 ORIGINAL

SHEET 1 OF 4

TOWNSHIP 7 SOUTH, RANGE 3 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1731-A

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE TABLE TOP WILDERNESS BOUNDARY

SHEET 3 OF 4

TOWNSHIP 7 SOUTH, RANGE 3 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

1731-C

DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE TABLE TOP WILDERNESS BOUNDARY

TABLE TOP WILDERNESS AREA

DETAIL "A"

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

TOWNSHIP No 7 North RANGE No 10 West of the Indian MERIDIAN

ORIGINAL

BOOK 5524

I, Stephen J. Mallo
pursuance of Supple
1996, I have survey
Range 22 West, of t
represented in the
direction; and that
supplemental specia
Public Lands of the
field notes.

July 15, 199
(Date)

The foregoing field
North, Range 22 Wes
Malloy, Cadastral S
hereby approved.

7/20/98
(Date)

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 3 N., R. 22 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

~~(Date)~~ ~~(Chief Cadastral Surveyor of Arizona)~~

Field Notes in Book 5568 Officially Filed DATE December 10, 1999 ORIGINAL

2815-F

TOWNSHIP 8 NORTH, RANGE 5 WEST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

SUBDIVISION AND METES-AND-BOUNDS SURVEY IN SECTION 6

The history of surveys is contained in the field notes.

This plat represents the subdivision of section 6 and a metes-and-bounds survey in section 6, Township 8 North, Range 5 West, Gila and Salt River Meridian, Arizona.

Except as indicated hereon, the lottings and areas are as shown on the plat accepted May 4, 1981.

This survey was executed by Dale C. Wilson, Cadastral Surveyor, beginning August 11, 1999, and completed August 12, 1999, pursuant to Special Instructions dated August 5, 1999, for Group No. 843, Arizona.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Phoenix, Arizona November 30, 1999

This plat is strictly conformable to the approved field notes, and the survey, having been correctly executed in accordance with the requirements of law and the regulations of this Bureau, is hereby accepted.

For the Director

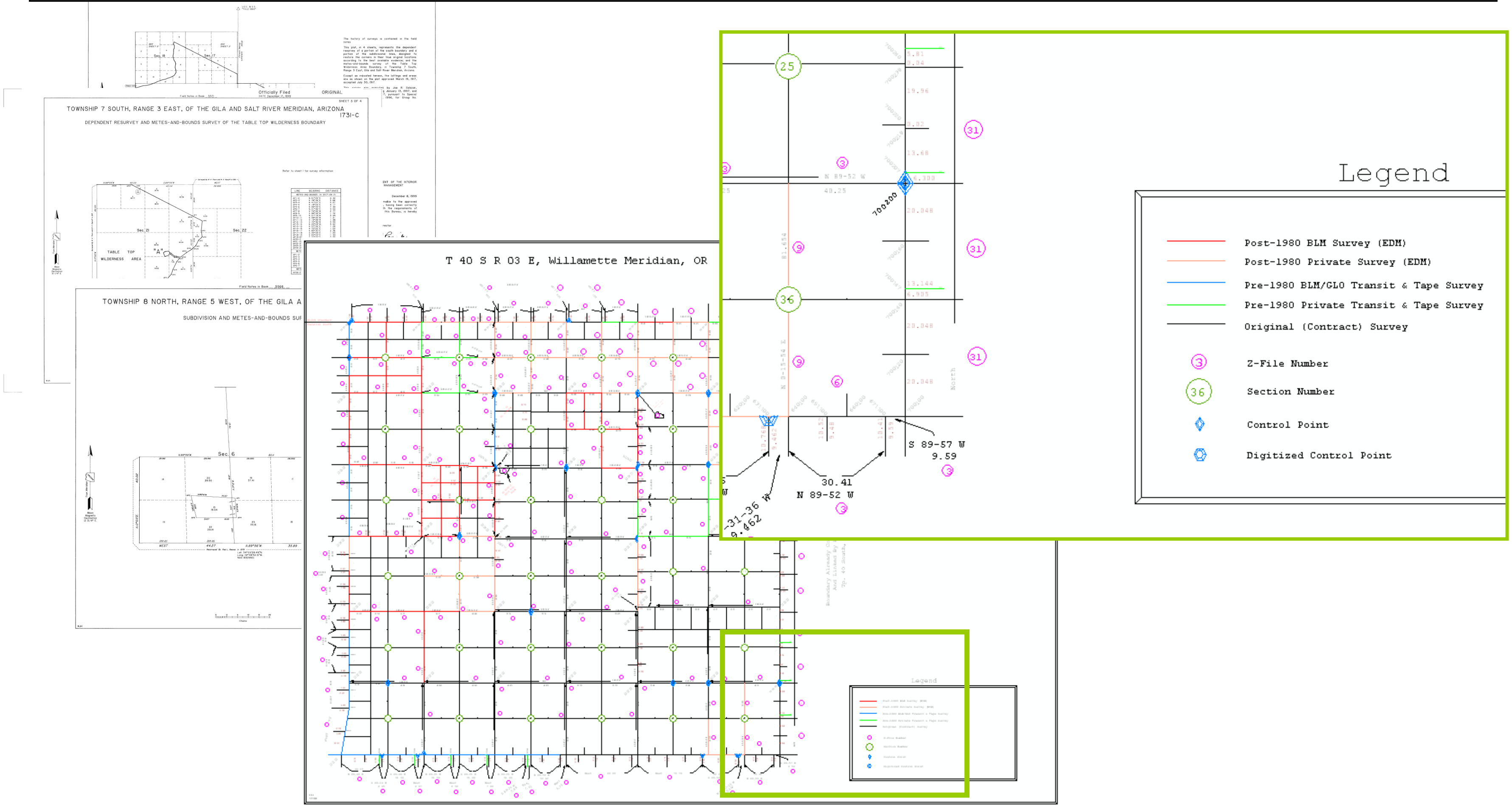
Kenny D Ravnikar

Chief Cadastral Surveyor of Arizona

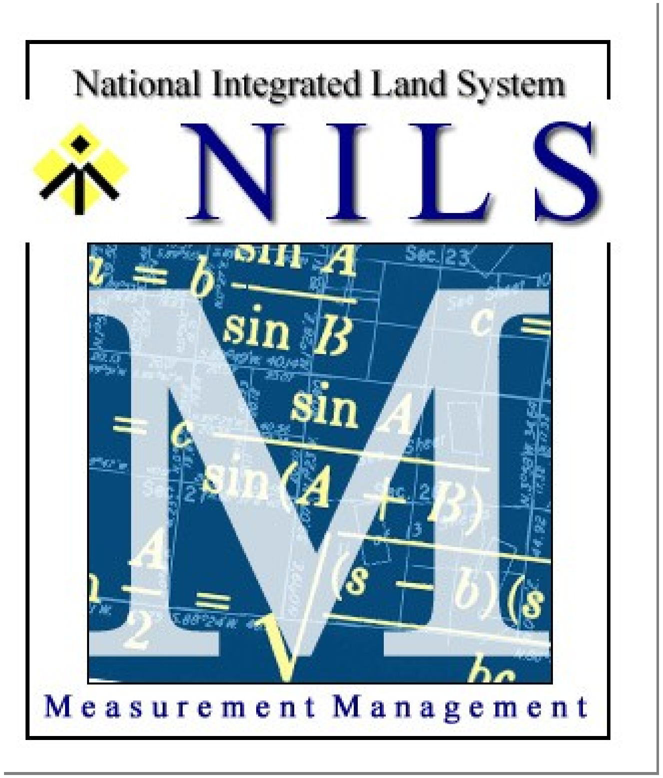
GCDB

- Through a series of legislative measures the Bureau of Land Management (BLM) initiated the Geographic Coordinate Data Base (GCDB)
- Purpose was to
  - Project to digitally portray the PLSS
  - Improve the coordination of the PLSS based on the survey record and adjusted with the best fit geodetic reference.
- The inclusion of the survey record provided the best indication of a corner’s position until it was located on the ground.
- The complete survey record included measurements, name of surveyor, survey completion date, survey document date, agency name, and survey method type.

Abstraction


TOWNSHIP 7 SOUTH, RANGE 3 EAST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA
1731-C
DEPENDENT RESURVEY AND METES-AND-BOUNDS SURVEY OF THE TABLE TOP WILDERNESS BOUNDARY
TABLE TOP WILDERNESS AREA
Officially Filed
ORIGINAL
TOWNSHIP 8 NORTH, RANGE 5 WEST, OF THE GILA A
SUBDIVISION AND METES-AND-BOUNDS SUR
Sec. 6
T 40 S R 03 E, Willamette Meridian, OR
25
36
31
N 89-52 W
40.23
S 89-57 W
9.59
30.41
N 89-52 W
Legend
Post-1980 BLM Survey (EDM)
Post-1980 Private Survey (EDM)
Pre-1980 BLM/GLO Transit & Tape Survey
Pre-1980 Private Transit & Tape Survey
Original (Contract) Survey
3 Z-File Number
36 Section Number
Control Point
Digitized Control Point

National Integrated Land System
NILS
S
Survey Management


National Integrated Land System
NILS
M
Measurement Management

Survey Management

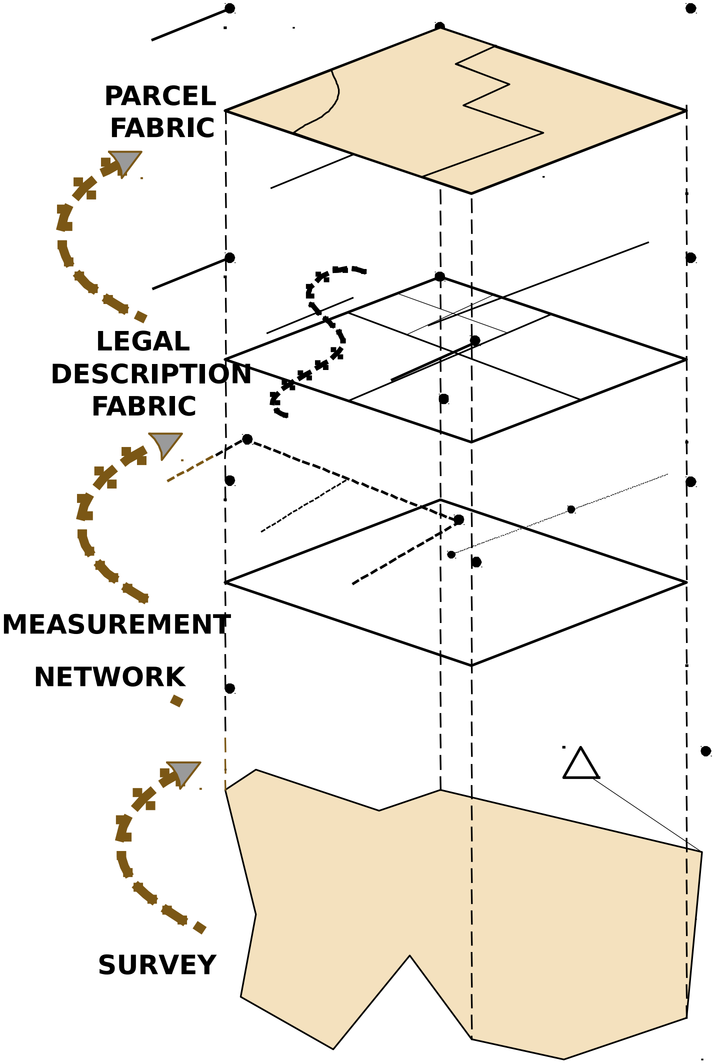
This will support the capture of measurement features and metadata directly into **a GIS database format**.

The goal is to minimize the need for data conversion and re-construction as measured features are incorporated into the land records management system.

GPS SYSTEM 500
Leica
11 1010 1100 1101 001

Measurement Management

Data Model Tiers


PARCEL
FABRIC
LEGAL
DESCRIPTION
FABRIC
MEASUREMENT
NETWORK
SURVEY

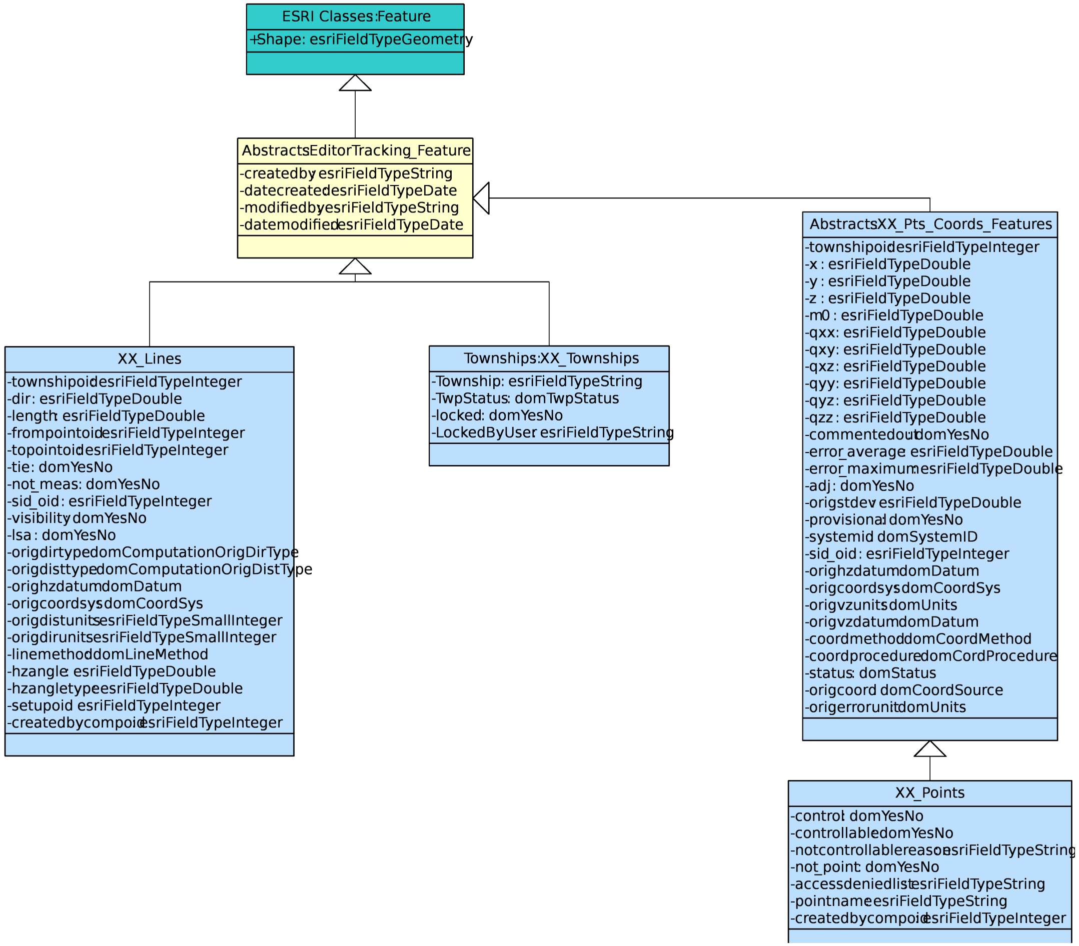
Provides the foundation for the legal description and parcel fabric tiers.

Integrated maintenance of cadastral data is made much more efficient when **geometry** can be **shared**.

Interpretation of (1) the **reliability** of each point position and (2) where data editing is needed.

New **data** can be **added**, and data elements that do not contribute to the optimal solution can be **removed**.

Any **area** can be selected and **readjusted**, e.g. to update point



ESRI Classes:Feature

+Shape: esriFieldTypeGeometry

Abstracts:EditorTracking_Feature

-createdby: esriFieldTypeString
-datecreated: esriFieldTypeDate
-modifiedby: esriFieldTypeString
-datemodified: esriFieldTypeDate

XX_Lines

-townshipoid: esriFieldTypeInteger
-dir: esriFieldTypeDouble
-length: esriFieldTypeDouble
-frompointoid: esriFieldTypeInteger
-topointoid: esriFieldTypeInteger
-tie: domYesNo
-not_meas: domYesNo
-sid_oid: esriFieldTypeInteger
-visibility: domYesNo
-lsa: domYesNo
-origdirtype: domComputationOrigDirType
-origdisttype: domComputationOrigDistType
-orighzdatum: domDatum
-origcoordsys: domCoordSys
-origdistunits: esriFieldTypeSmallInteger
-origdirunits: esriFieldTypeSmallInteger
-linemethod: domLineMethod
-hzangle: esriFieldTypeDouble
-hzangletype: esriFieldTypeDouble
-setupoid: esriFieldTypeInteger
-createdbycompoid: esriFieldTypeInteger

Townships:XX_Townships

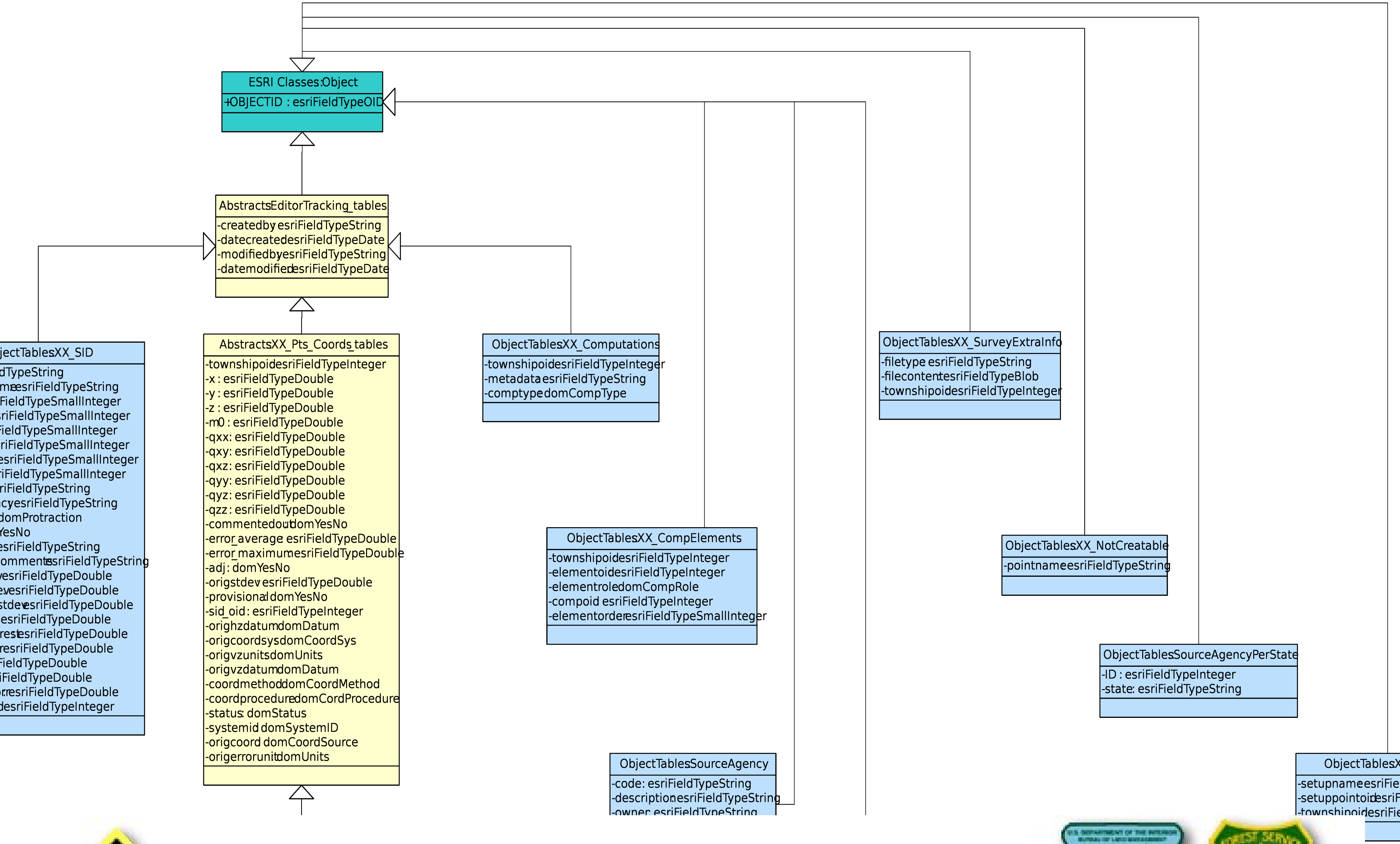
-Township: esriFieldTypeString
-TwpStatus: domTwpStatus
-locked: domYesNo
-LockedByUser: esriFieldTypeString

Abstracts:XX_Pts_Coords_Features

-townshipoid: esriFieldTypeInteger
-x: esriFieldTypeDouble
-y: esriFieldTypeDouble
-z: esriFieldTypeDouble
-m0: esriFieldTypeDouble
-qxx: esriFieldTypeDouble
-qxy: esriFieldTypeDouble
-qxz: esriFieldTypeDouble
-qyy: esriFieldTypeDouble
-qyz: esriFieldTypeDouble
-qzz: esriFieldTypeDouble
-commentedout: domYesNo
-error_average: esriFieldTypeDouble
-error_maximum: esriFieldTypeDouble
-adj: domYesNo
-origstdev: esriFieldTypeDouble
-provisional: domYesNo
-systemid: domSystemID
-sid_oid: esriFieldTypeInteger
-orighzdatum: domDatum
-origcoordsys: domCoordSys
-origvzunits: domUnits
-origvzdatum: domDatum
-coordmethod: domCoordMethod
-coordprocedure: domCordProcedure
-status: domStatus
-origcoord: domCoordSource
-origerrorunit: domUnits

XX_Points

-control: domYesNo
-controllable: domYesNo
-notcontrollablereason: esriFieldTypeString
-not_point: domYesNo
-accessdeniedlist: esriFieldTypeString
-pointname: esriFieldTypeString
-createdbycompoid: esriFieldTypeInteger



ESRI Classes::Object
+OBJECTID : esriFieldTypeOID

AbstractsEditorTracking_tables
-createdby : esriFieldTypeString
-datecreated : esriFieldTypeDate
-modifiedby : esriFieldTypeString
-datemodified : esriFieldTypeDate

jectTables::XX_SID
dTypeString
me : esriFieldTypeString
FieldTypeSmallInteger
sriFieldTypeSmallInteger
ieldTypeSmallInteger
riFieldTypeSmallInteger
esriFieldTypeSmallInteger
riFieldTypeSmallInteger
riFieldTypeString
cy : esriFieldTypeString
domProtraction
YesNo
esriFieldTypeString
omments : esriFieldTypeString
v : esriFieldTypeDouble
ev : esriFieldTypeDouble
stdev : esriFieldTypeDouble
esriFieldTypeDouble
rest : esriFieldTypeDouble
r : esriFieldTypeDouble
FieldTypeDouble
iFieldTypeDouble
or : esriFieldTypeDouble
d : esriFieldTypeInteger

AbstractsXX_Pts_Coords_tables
-townshipoid : esriFieldTypeInteger
-x : esriFieldTypeDouble
-y : esriFieldTypeDouble
-z : esriFieldTypeDouble
-m0 : esriFieldTypeDouble
-qxx : esriFieldTypeDouble
-qxy : esriFieldTypeDouble
-qxz : esriFieldTypeDouble
-qyy : esriFieldTypeDouble
-qyz : esriFieldTypeDouble
-qzz : esriFieldTypeDouble
-commentedout : domYesNo
-error_average : esriFieldTypeDouble
-error_maximum : esriFieldTypeDouble
-adj : domYesNo
-origstdev : esriFieldTypeDouble
-provisional : domYesNo
-sid_oid : esriFieldTypeInteger
-orighzdatum : domDatum
-origcoordsys : domCoordSys
-origvzunits : domUnits
-origvzdatum : domDatum
-coordmethod : domCoordMethod
-coordprocedure : domCordProcedure
-status : domStatus
-systemid : domSystemID
-origcoord : domCoordSource
-origerrorunit : domUnits

ObjectTables::XX_Computations
-townshipoid : esriFieldTypeInteger
-metadata : esriFieldTypeString
-comptype : domCompType

ObjectTables::XX_CompElements
-townshipoid : esriFieldTypeInteger
-elementoid : esriFieldTypeInteger
-elementrole : domCompRole
-compoid : esriFieldTypeInteger
-elementorder : esriFieldTypeSmallInteger

ObjectTables::SourceAgency
-code : esriFieldTypeString
-description : esriFieldTypeString
-owner : esriFieldTypeString

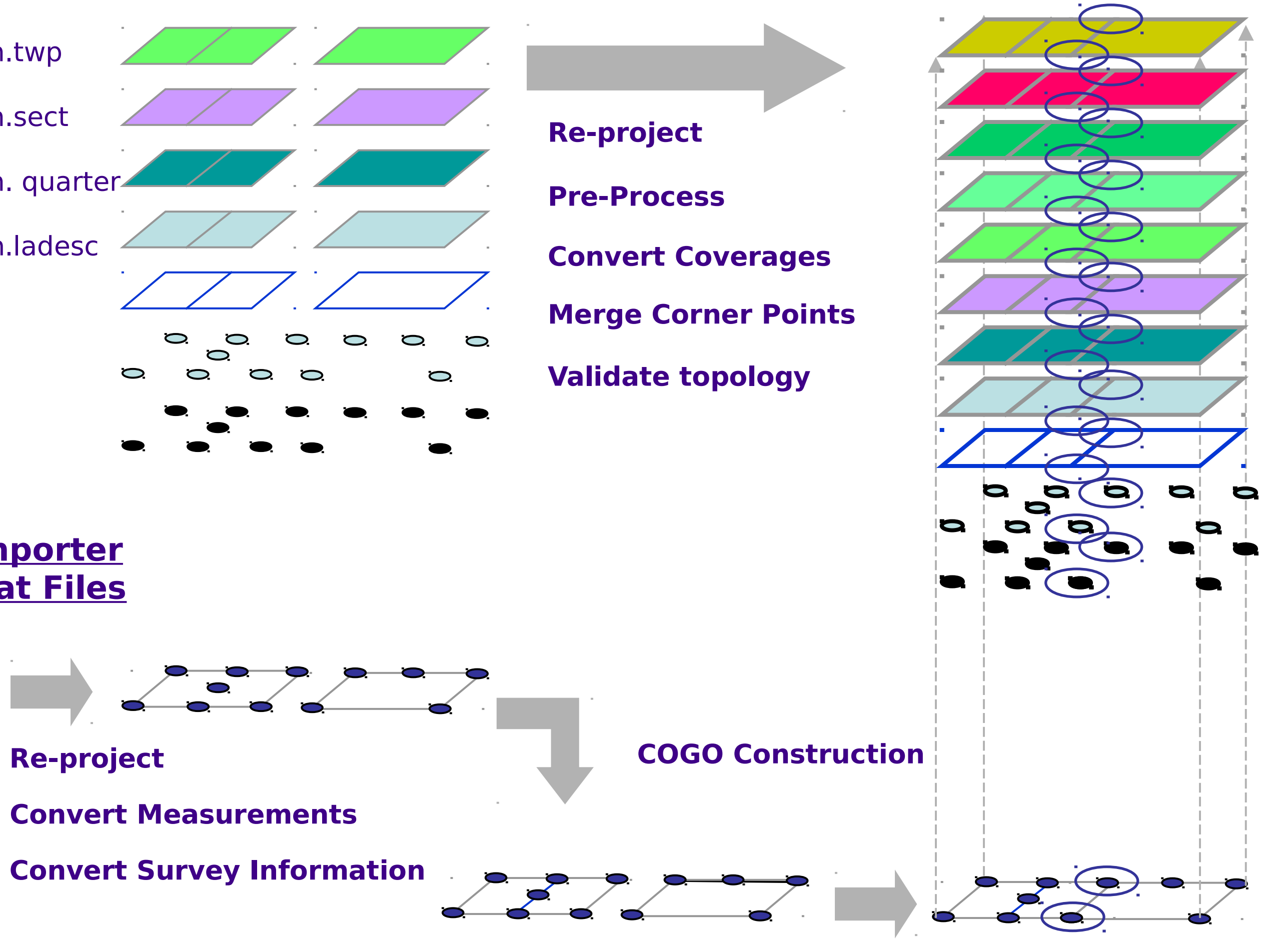
ObjectTables::XX_SurveyExtraInfo
-filetype : esriFieldTypeString
-filecontent : esriFieldTypeBlob
-townshipoid : esriFieldTypeInteger

ObjectTables::XX_NotCreatable
-pointname : esriFieldTypeString

ObjectTables::SourceAgencyPerState
-ID : esriFieldTypeInteger
-state : esriFieldTypeString

ObjectTables::X
-setupname : esriFie
-setuppointoid : esriF
-townshipoid : esriFie

Populating the NILS Geodatabase



LD – Importer
GCDB Coverages

GCDB.region.twp
GCDB.region.sect
GCDB.region. quarter
GCDB.region.ladesc
GCDB.arc
GCDB.node
CTRL.point

Re-project
Pre-Process
Convert Coverages
Merge Corner Points
Validate topology

NILS Geodatabase
Feature Classes

Provisional Boundary
Special Survey Division
Special Survey
PLSS Irregular Division
PLSS Sub Division of Sections
PLSS First Division
PLSS Second Division
PLSS Township
Record boundary
Measured Coordinates
Corner

SFF – importer
GMM Flat Files

.RAW
.CON
.DEF
.SID
.LX
.
ADD
.IRR
.
NOT

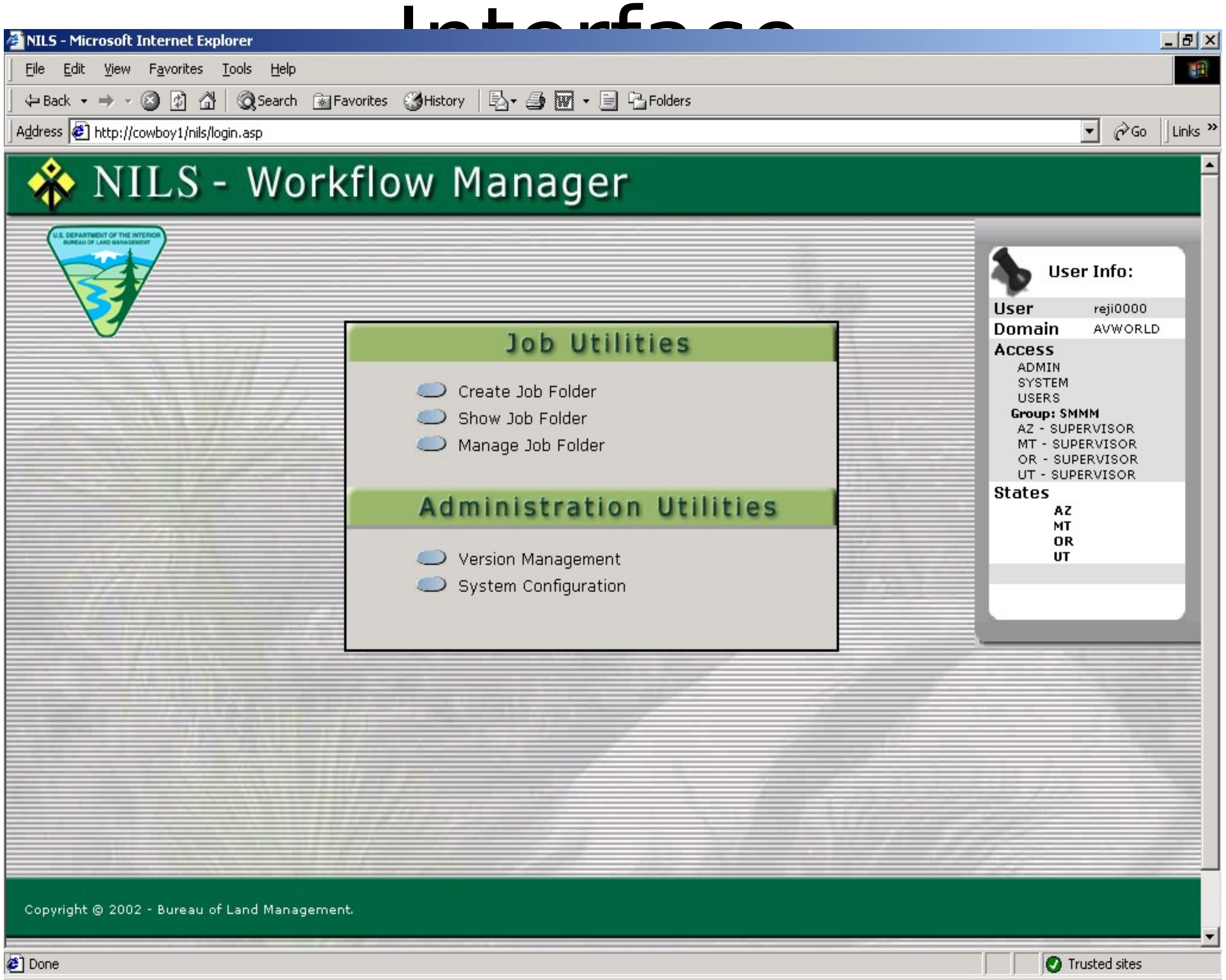
Re-project
Convert Measurements
Convert Survey Information

COGO Construction

Survey to Feature Linking

Merge Survey Projects
Merge Survey Points

The Main application Interface



NILS - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History Folders
Address
Go Links
NILS - Workflow Manager
U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT
Done
Trusted sites

Address: http://cowboy1/nils/login.asp

Job Utilities

- Create Job Folder
- Show Job Folder
- Manage Job Folder

Administration Utilities

- Version Management
- System Configuration

User Info:

User reji0000
Domain AVWORLD
Access
ADMIN
SYSTEM
USERS
Group: SMMM
AZ - SUPERVISOR
MT - SUPERVISOR
OR - SUPERVISOR
UT - SUPERVISOR
States
AZ
MT
OR
UT

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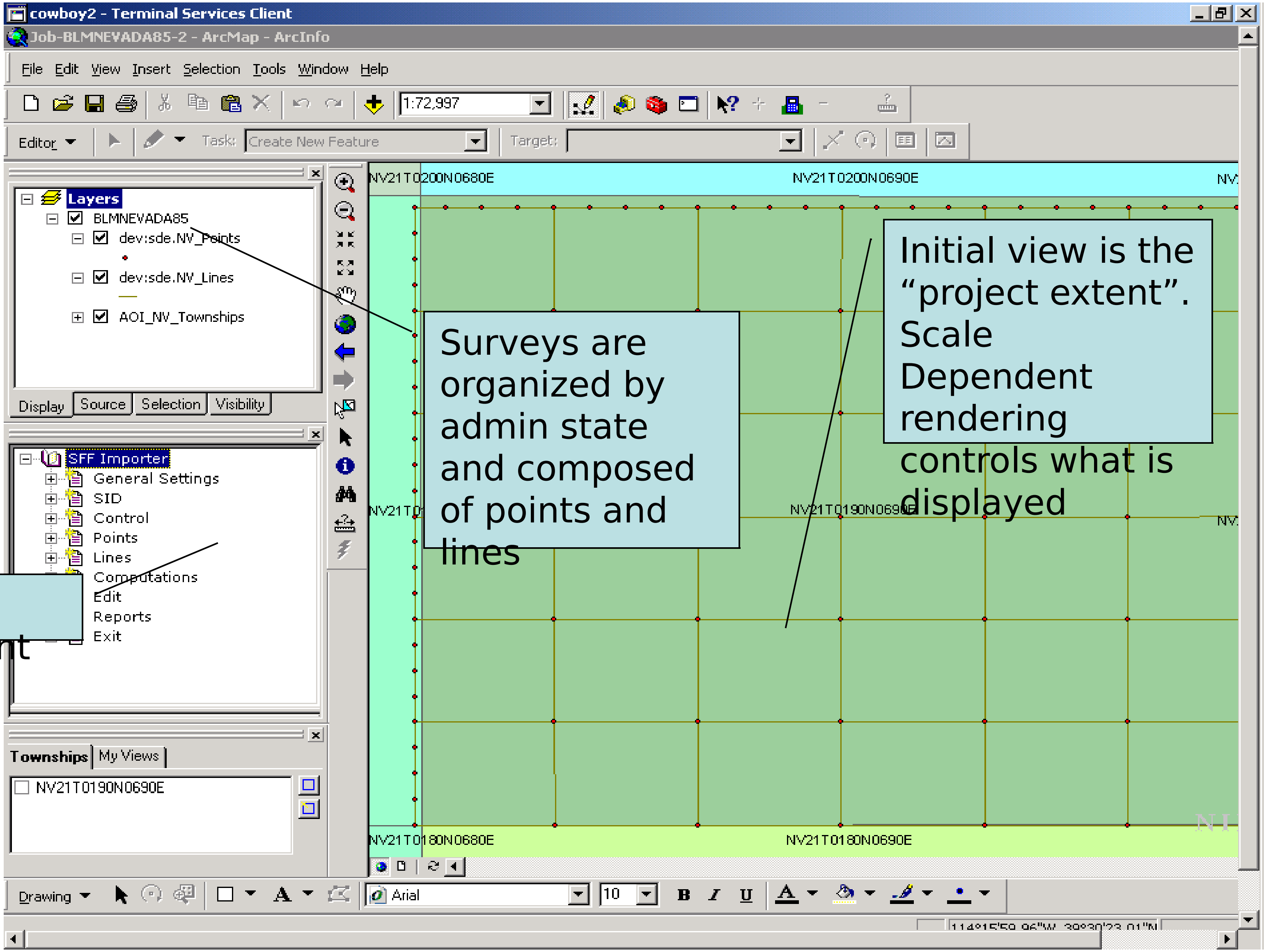
ArcMap Interface

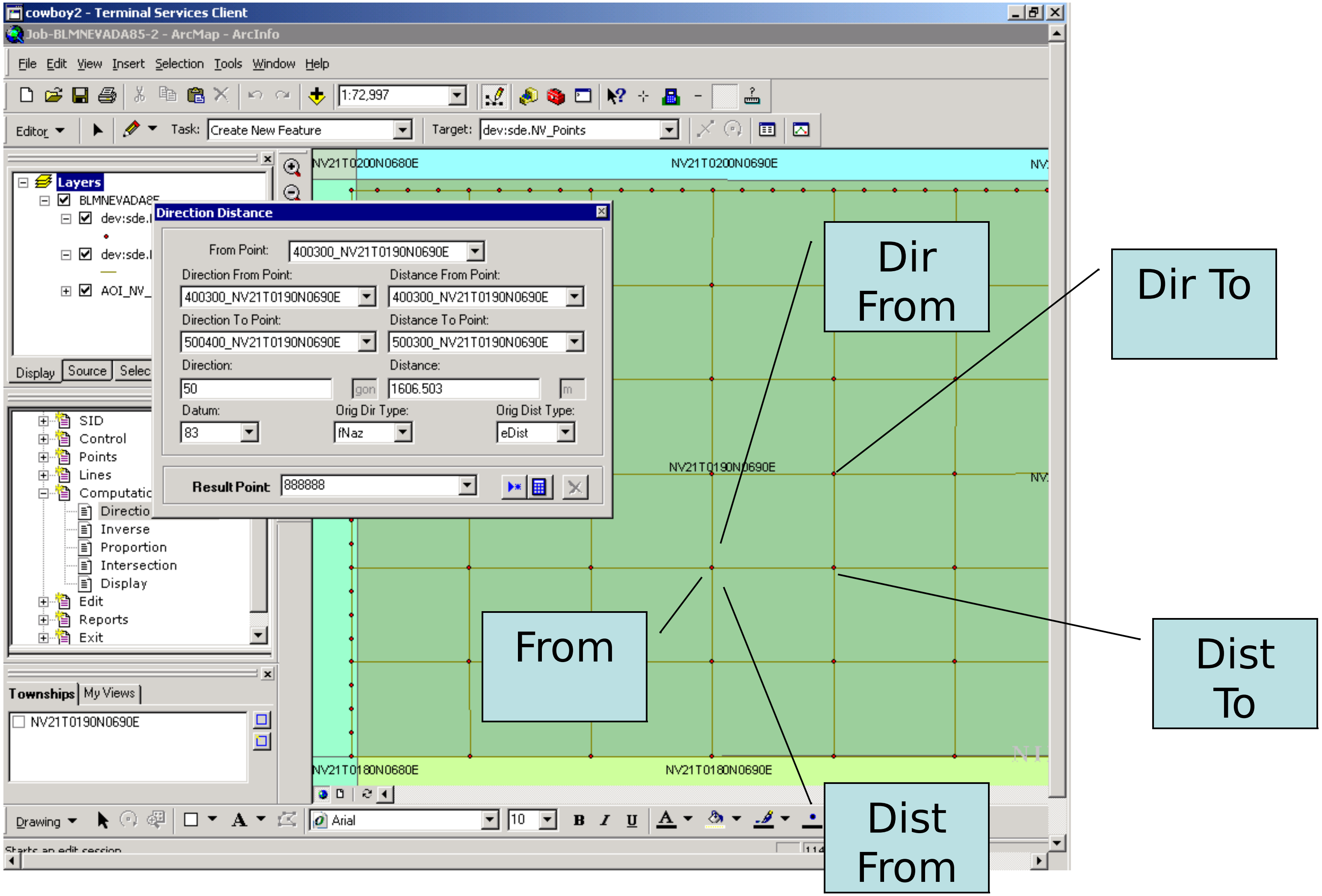

cowboy2 - Terminal Services Client
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:72,997
Editor
Task: Create New Feature
Target:
Layers
BLMNEVADA85
dev:sde.NV_Points
dev:sde.NV_Lines
AOI_NV_Townships
Display Source Selection Visibility
SFF Importer
General Settings
SID
Control
Points
Lines
Computations
Edit
Reports
Exit
Townships My Views
NV21T0190N0690E
NV21T0200N0680E
NV21T0200N0690E
NV21T0190N0690E
NV21T0180N0680E
NV21T0180N0690E
Drawing
Arial
10
114°15'59.96"W 39°30'23.01"N

Surveys are organized by admin state and composed of points and lines

Initial view is the “project extent”. Scale Dependent rendering controls what is displayed

Task Assistant

Computations


cowboy2 - Terminal Services Client
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:72,997
Editor
Task: Create New Feature
Target: dev:sde.NV_Points
Layers
BLMNEVADA85
dev:sde.
dev:sde.
AOI_NV_
Display Source Selec
SID
Control
Points
Lines
Computatio
Directio
Inverse
Proportion
Intersection
Display
Edit
Reports
Exit
Townships My Views
NV21T0190N0690E
NV21T0200N0680E
NV21T0200N0690E
NV21T0190N0690E
NV21T0180N0680E
NV21T0180N0690E
Drawing
Arial
10
Starts an edit session

Direction Distance

From Point: 400300_NV21T0190N0690E

Direction From Point: 400300_NV21T0190N0690E

Distance From Point: 400300_NV21T0190N0690E

Direction To Point: 500400_NV21T0190N0690E

Distance To Point: 500300_NV21T0190N0690E

Direction: 50 gon

Distance: 1606.503 m

Datum: 83

Orig Dir Type: fNaz

Orig Dist Type: eDist

Result Point: 888888

Dir From

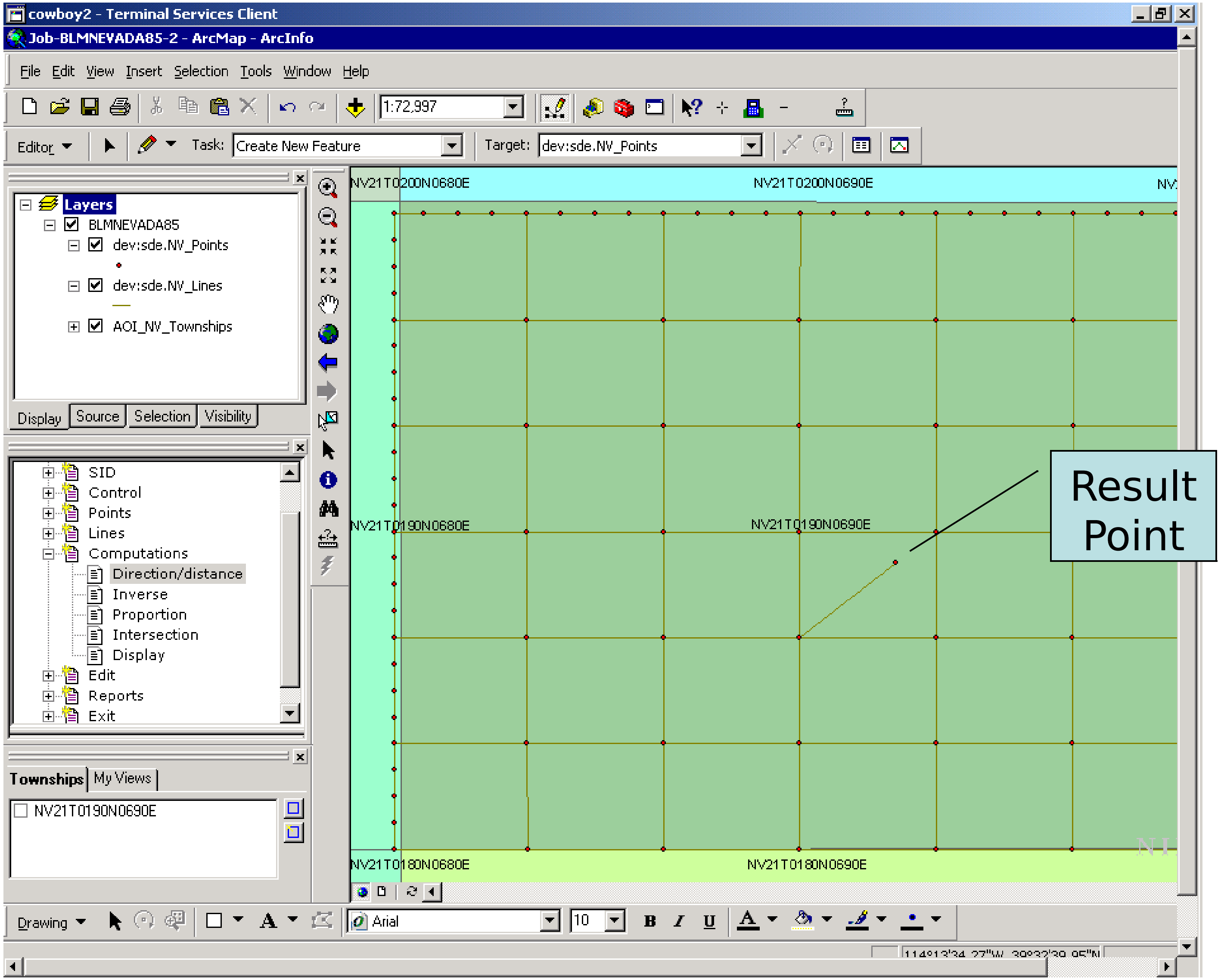
Dir To

From

Dist To

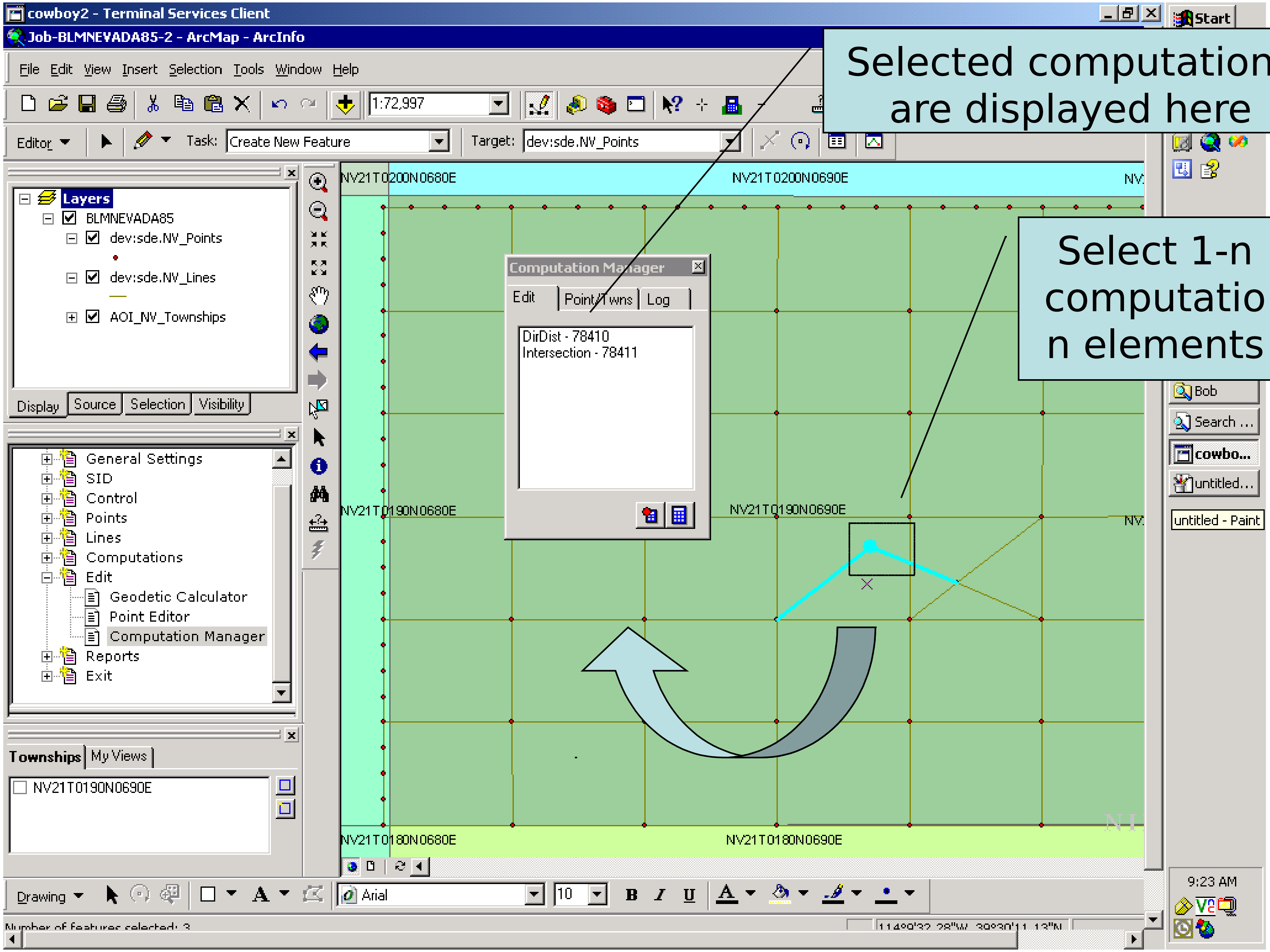
Dist From

Computations


cowboy2 - Terminal Services Client
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:72,997
Editor
Task: Create New Feature
Target: dev:sde.NV_Points
Layers
BLMNEVADA85
dev:sde.NV_Points
dev:sde.NV_Lines
AOI_NV_Townships
Display Source Selection Visibility
SID
Control
Points
Lines
Computations
Direction/distance
Inverse
Proportion
Intersection
Display
Edit
Reports
Exit
Townships My Views
NV21T0190N0690E
NV21T0200N0680E
NV21T0200N0690E
NV21T0190N0680E
NV21T0190N0690E
NV21T0180N0680E
NV21T0180N0690E
Drawing
Arial
10
114°13'34.27"W 39°33'39.05"N

Result Point

Computation Manager


cowboy2 - Terminal Services Client
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
Editor
Layers
BLMNEVADA85
dev:sde.NV_Points
dev:sde.NV_Lines
AOI_NV_Townships
Display Source Selection Visibility
General Settings
SID
Control
Points
Lines
Computations
Edit
Geodetic Calculator
Point Editor
Computation Manager
Reports
Exit
Townships My Views
NV21T0190N0690E
Computation Manager
Edit Point/Twns Log
NV21T0200N0680E
NV21T0200N0690E
NV21T0190N0680E
NV21T0190N0690E
NV21T0180N0680E
NV21T0180N0690E
Drawing
Arial
10
Start
Bob
Search ...
cowbo...
untitled...
untitled - Paint
9:23 AM

1:72,997

Task: Create New Feature

Target: dev:sde.NV_Points

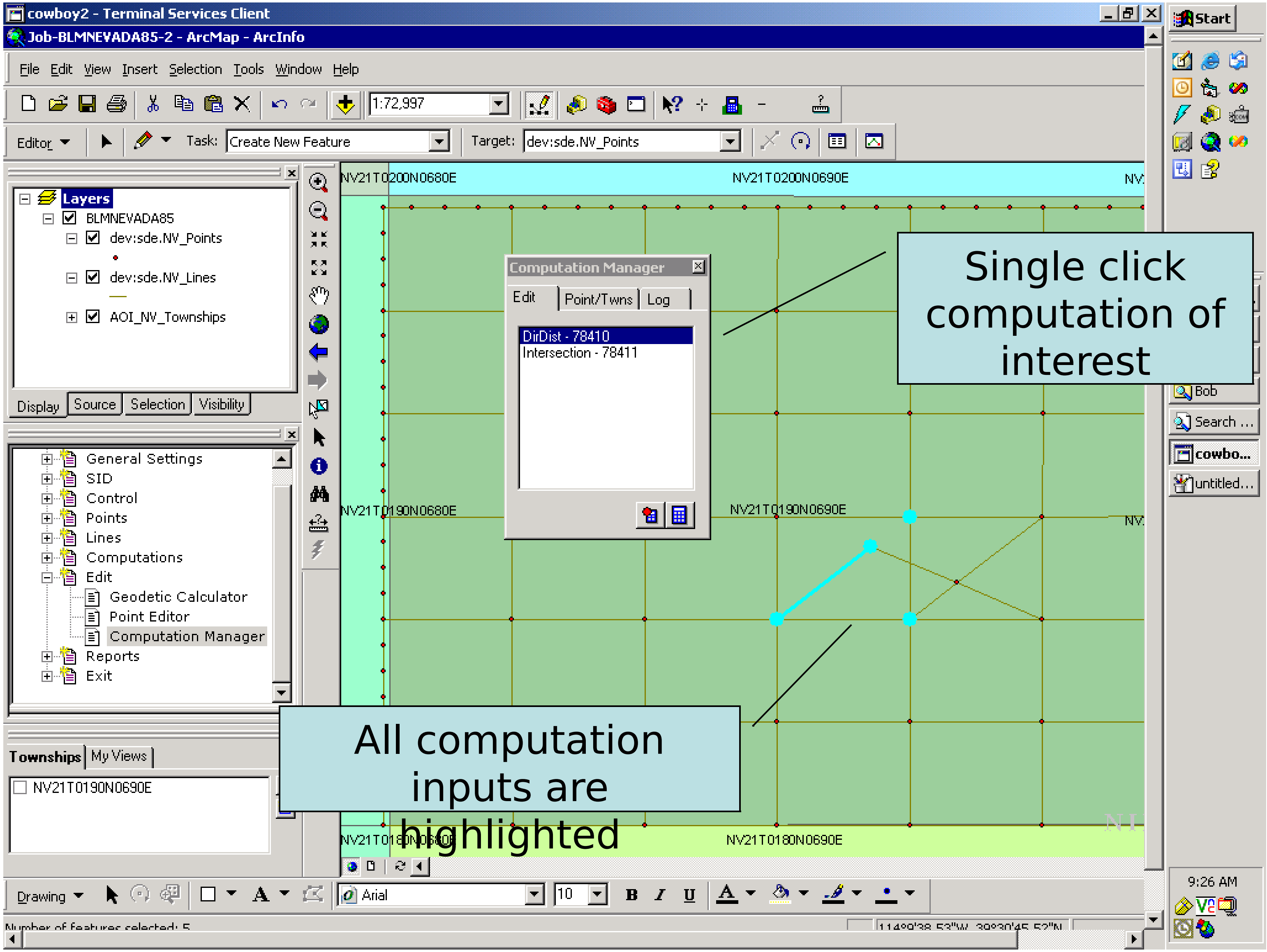
DirDist - 78410
Intersection - 78411

Number of features selected: 3

Selected computations are displayed here

Select 1-n computation elements

Computation Manager



cowboy2 - Terminal Services Client

Job-BLMNEVADA85-2 - ArcMap - ArcInfo

Scale: 1:72,997

Task: Create New Feature

Target: dev:sde.NV_Points

Computation Manager

DirDist - 78410

Intersection - 78411

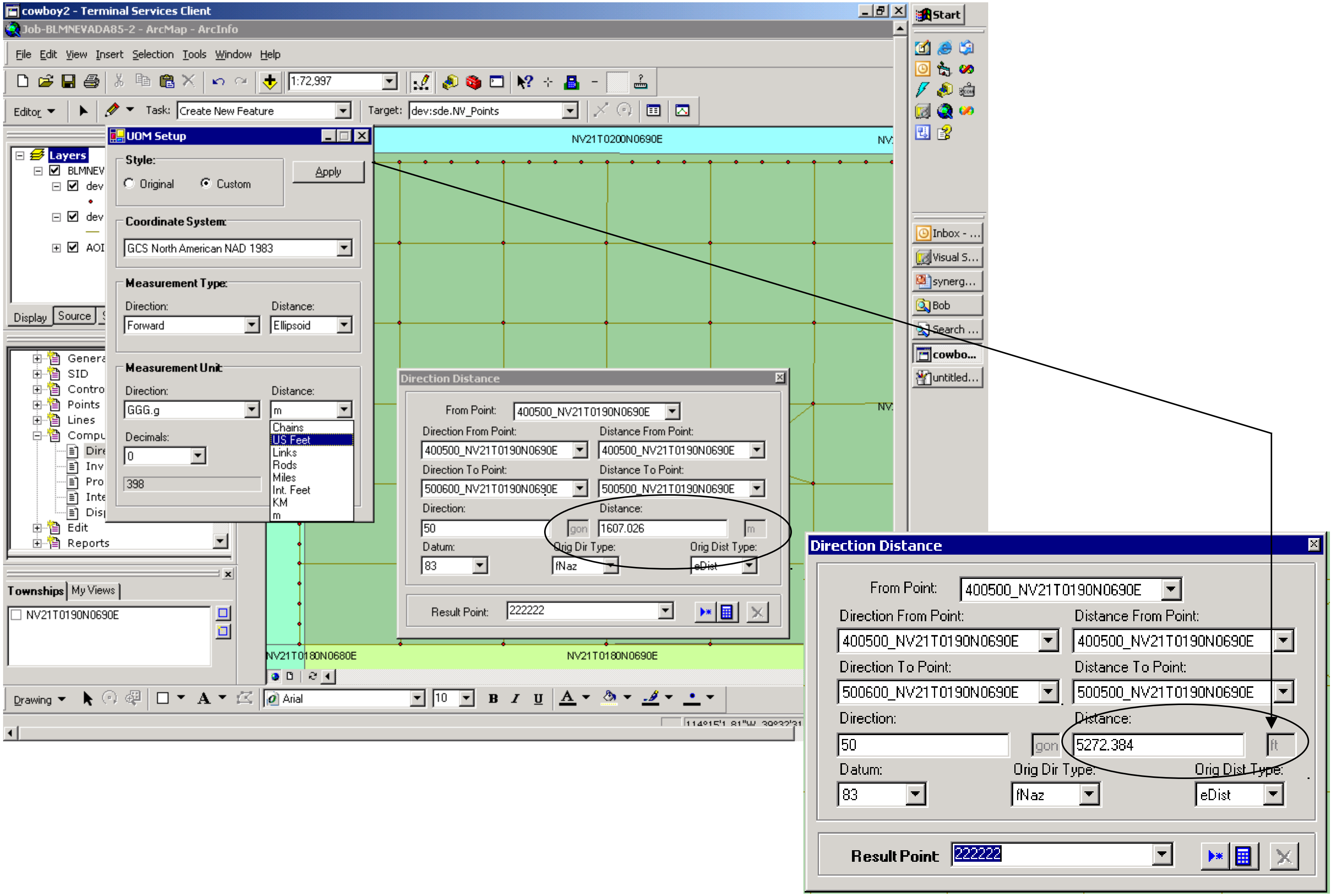
Number of features selected: 5

File
Edit
View
Insert
Selection
Tools
Window
Help
Editor
Layers
BLMNEVADA85
dev:sde.NV_Points
dev:sde.NV_Lines
AOI_NV_Townships
Display
Source
Selection
Visibility
General Settings
SID
Control
Points
Lines
Computations
Edit
Geodetic Calculator
Point Editor
Computation Manager
Reports
Exit
Townships
My Views
NV21T0190N0690E
NV21T0200N0680E
NV21T0200N0690E
NV21T0190N0680E
NV21T0190N0690E
NV21T0180N0680E
NV21T0180N0690E
Edit
Point/Twns
Log
Drawing
Arial
10
Start
Bob
Search ...
cowbo...
untitled...
9:26 AM
114°9'38.53"W 39°30'45.52"N

Single click computation of interest

All computation inputs are highlighted

UOM – Form Input


cowboy2 - Terminal Services Client
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:72,997
Editor
Task: Create New Feature
Target: dev:sde.NV_Points
Layers
BLMNEV
dev
AOI
Display
Source
General
SID
Control
Points
Lines
Compu
Dire
Inv
Pro
Inte
Disp
Edit
Reports
Townships
My Views
NV21T0190N0690E
NV21T0200N0690E
NV21T0180N0680E
NV21T0180N0690E
Drawing
Arial
10
Start
Inbox - ...
Visual S...
synerg...
Bob
Search ...
cowbo...
untitled...

UOM Setup

Style: ○ Original ● Custom

Apply

Coordinate System: GCS North American NAD 1983

Measurement Type

Direction: Forward

Distance: Ellipsoid

Measurement Unit

Direction: GGG.g

Distance: m

- Chains
- US Feet
- Links
- Rods
- Miles
- Int. Feet
- KM
- m

Decimals: 0

398

Direction Distance

From Point: 400500_NV21T0190N0690E

Direction From Point: 400500_NV21T0190N0690E

Distance From Point: 400500_NV21T0190N0690E

Direction To Point: 500600_NV21T0190N0690E

Distance To Point: 500500_NV21T0190N0690E

Direction: 50 gon

Distance: 1607.026 m

Datum: 83

Orig Dir Type: fNaz

Orig Dist Type: eDist

Result Point: 222222

Direction Distance

From Point: 400500_NV21T0190N0690E

Direction From Point: 400500_NV21T0190N0690E

Distance From Point: 400500_NV21T0190N0690E

Direction To Point: 500600_NV21T0190N0690E

Distance To Point: 500500_NV21T0190N0690E

Direction: 50 gon

Distance: 5272.384 ft

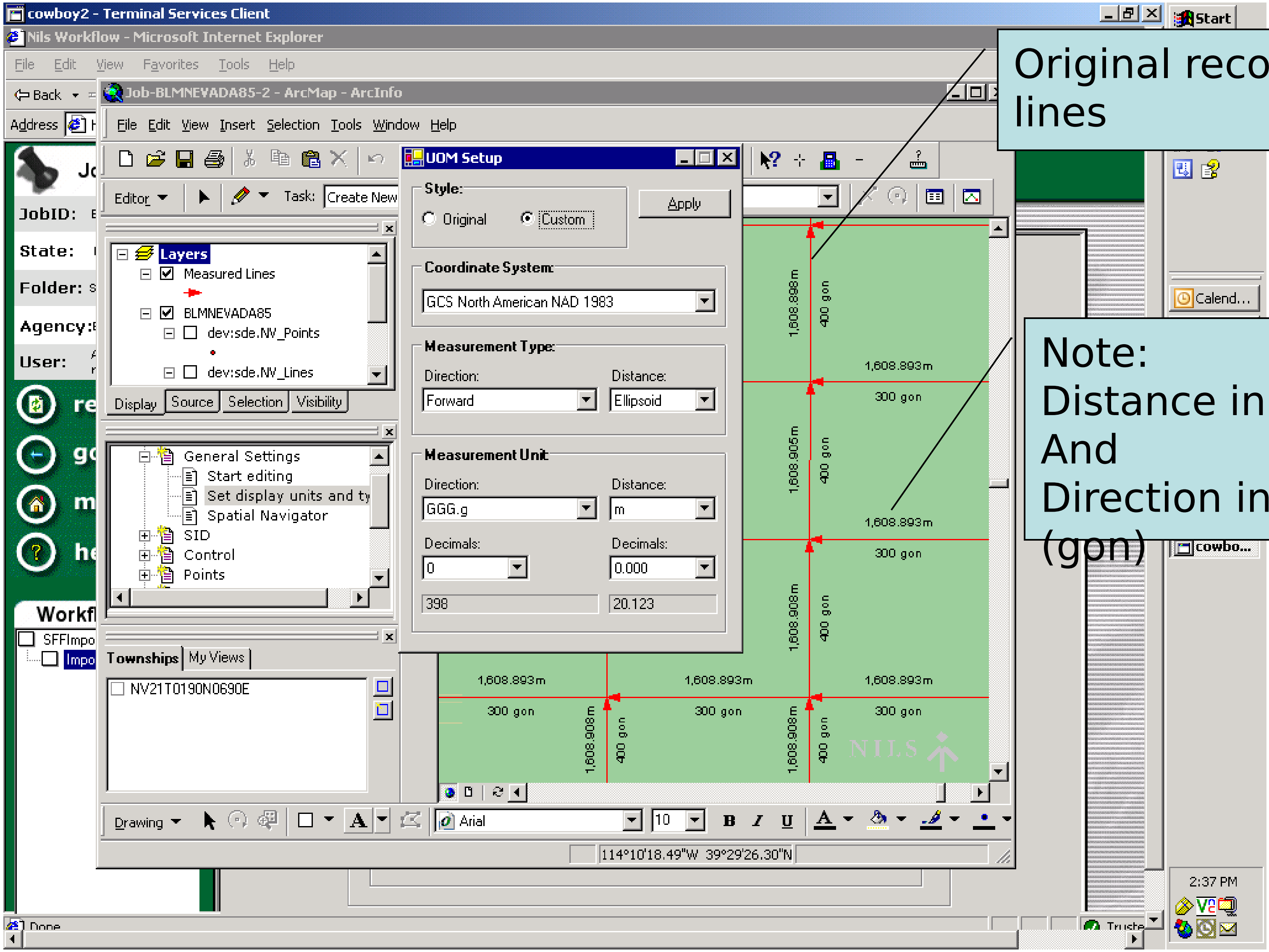
Datum: 83

Orig Dir Type: fNaz

Orig Dist Type: eDist

Result Point: 222222

UOM – Map Display



UOM Setup

Style: ○ Original ● Custom

Coordinate System: GCS North American NAD 1983

Measurement Type:
Direction: Forward
Distance: Ellipsoid

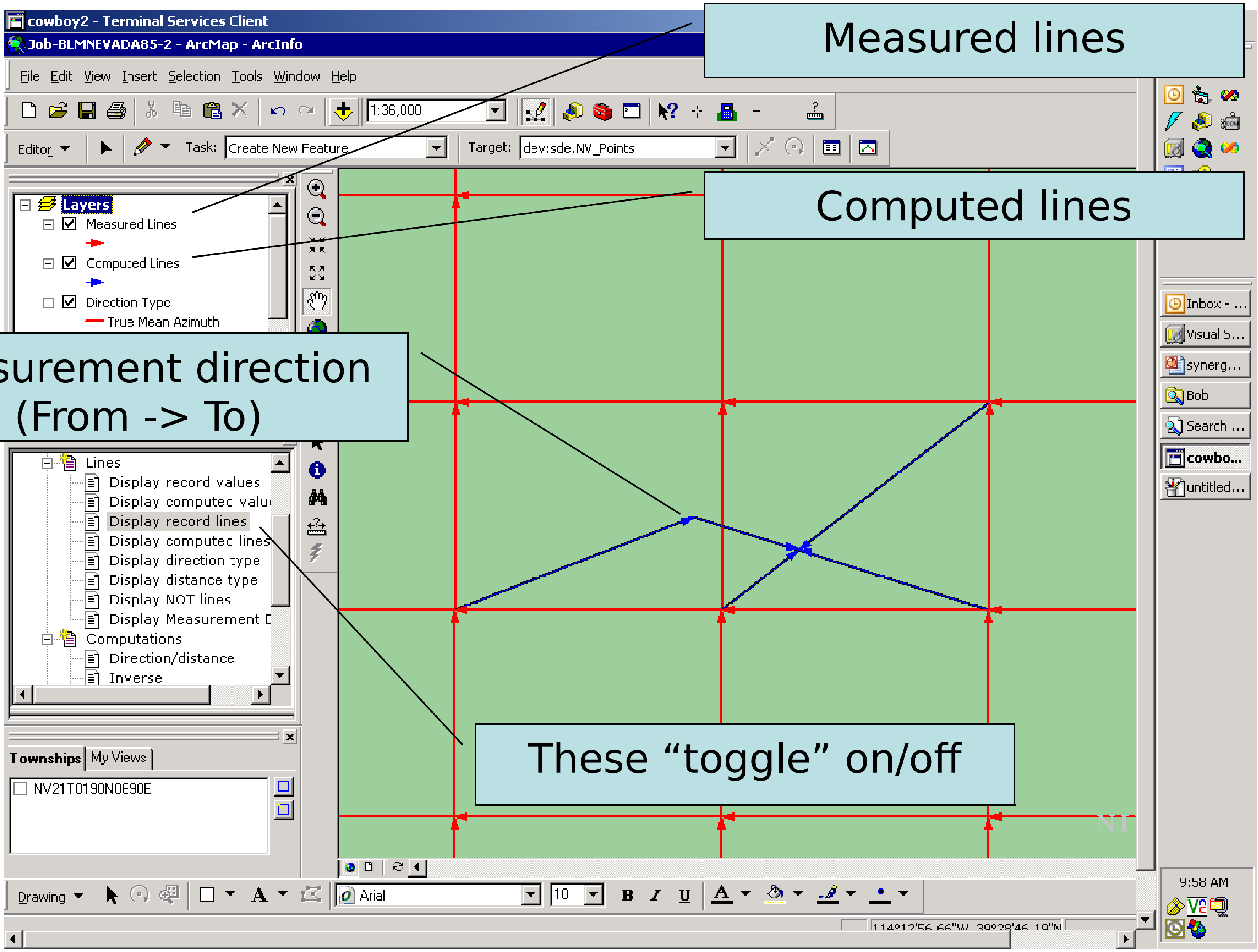
Measurement Unit:
Direction: GGG.g
Distance: m
Decimals: 0
Decimals: 0.000
398
20.123

cowboy2 - Terminal Services Client
Nils Workflow - Microsoft Internet Explorer
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
Editor
Task: Create New
Apply
Layers
Measured Lines
BLMNEVADA85
dev:sde.NV_Points
dev:sde.NV_Lines
Display Source Selection Visibility
General Settings
Start editing
Set display units and ty
Spatial Navigator
SID
Control
Points
Townships My Views
NV21T0190N0690E
1,608.898m
400 gon
1,608.893m
300 gon
1,608.905m
1,608.908m
NILS
Drawing
Arial
10
114°10'18.49"W 39°29'26.30"N
Start
Calend...
cowbo...
2:37 PM
Done

Original record lines

Note:
Distance in (m)
And
Direction in (gon)

Symbolization of Survey Data


cowboy2 - Terminal Services Client
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:36,000
Editor
Task: Create New Feature
Target: dev:sde.NV_Points
Layers
☑ Measured Lines
☑ Computed Lines
☑ Direction Type
True Mean Azimuth
Lines
Display record values
Display computed valu
Display record lines
Display computed lines
Display direction type
Display distance type
Display NOT lines
Display Measurement D
Computations
Direction/distance
Inverse
Townships
My Views
☐ NV21T0190N0690E
Drawing
Arial
10
Inbox - ...
Visual S...
synerg...
Bob
Search ...
cowbo...
untitled...
9:58 AM

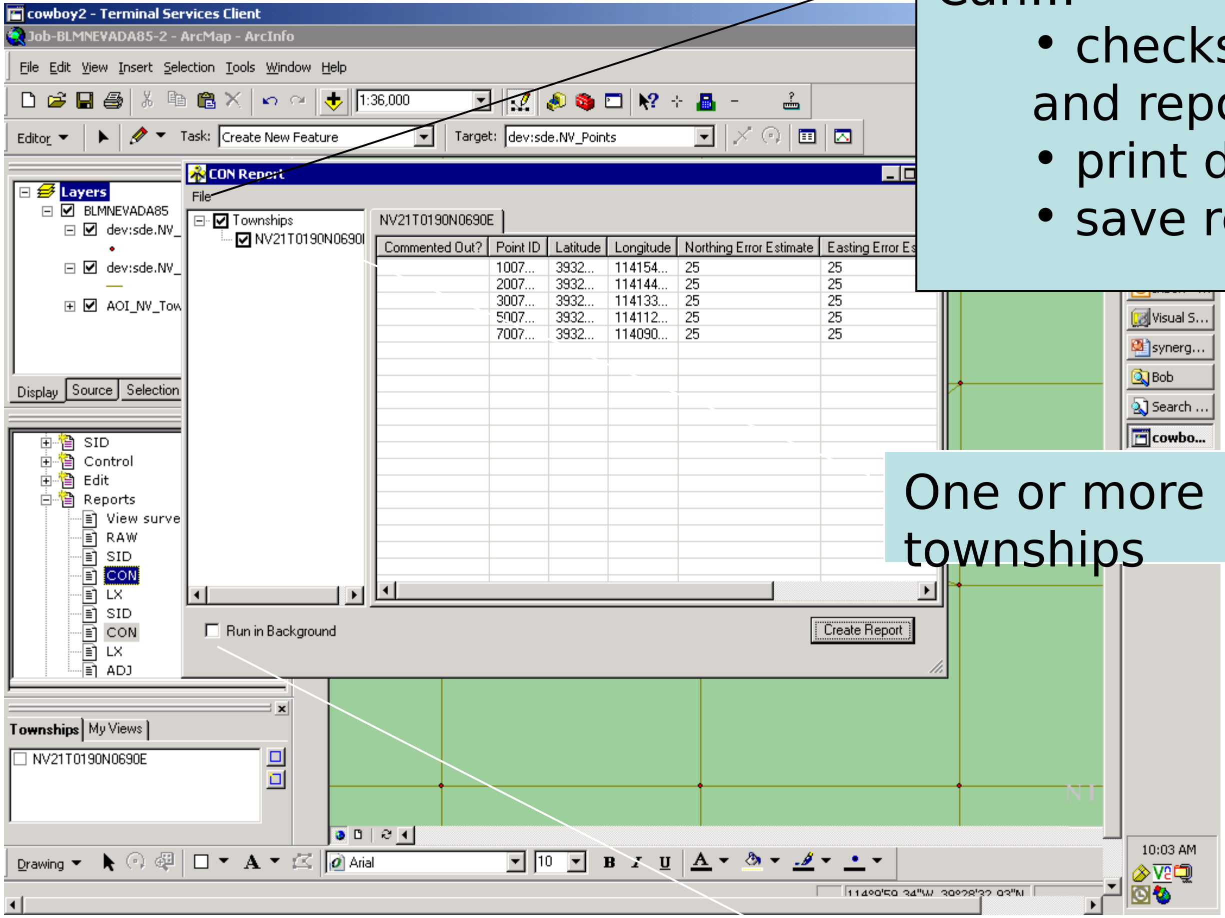
Measured lines

Computed lines

Measurement direction (From -> To)

These “toggle” on/off

Reports (9)


cowboy2 - Terminal Services Client
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:36,000
Editor
Layers
BLMNEVADA85
dev:sde.NV_
dev:sde.NV_
AOI_NV_Tow
Display Source Selection
SID
Control
Edit
Reports
View surve
RAW
SID
CON
LX
SID
CON
LX
ADJ
Townships My Views
Drawing
Arial
10
Visual S...
synerg...
Bob
Search ...
cowbo...
10:03 AM

Task: Create New Feature

Target: dev:sde.NV_Points

CON Report

File

☑ Townships
☑ NV21T0190N0690I

NV21T0190N0690E

Commented Out?	Point ID	Latitude	Longitude	Northing Error Estimate	Easting Error Es
	1007...	3932...	114154...	25	25
	2007...	3932...	114144...	25	25
	3007...	3932...	114133...	25	25
	5007...	3932...	114112...	25	25
	7007...	3932...	114090...	25	25

☐ Run in Background

Create Report

☐ NV21T0190N0690E

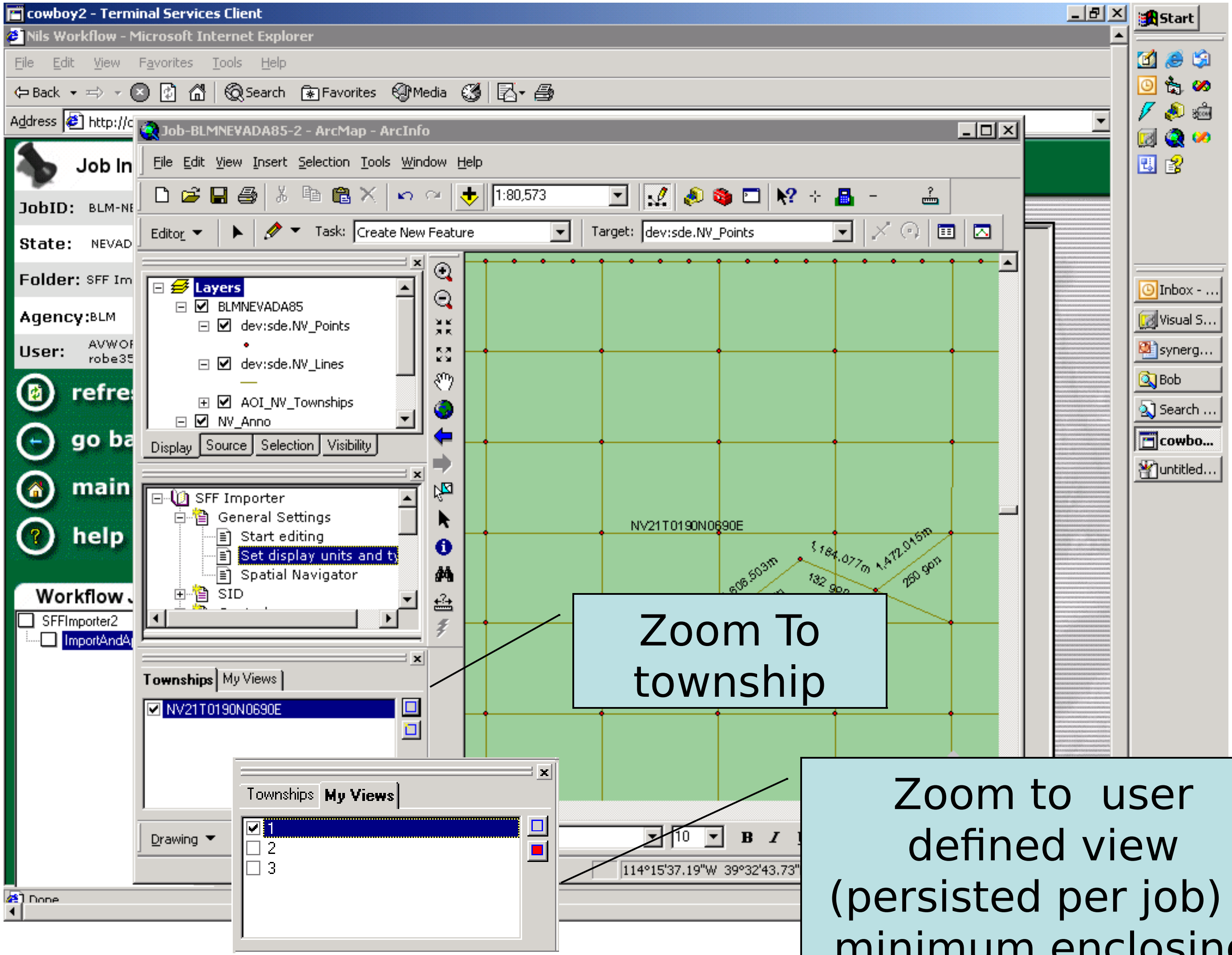
Can...

- checksum data and report results
- print data
- save reports

One or more townships

Background processing

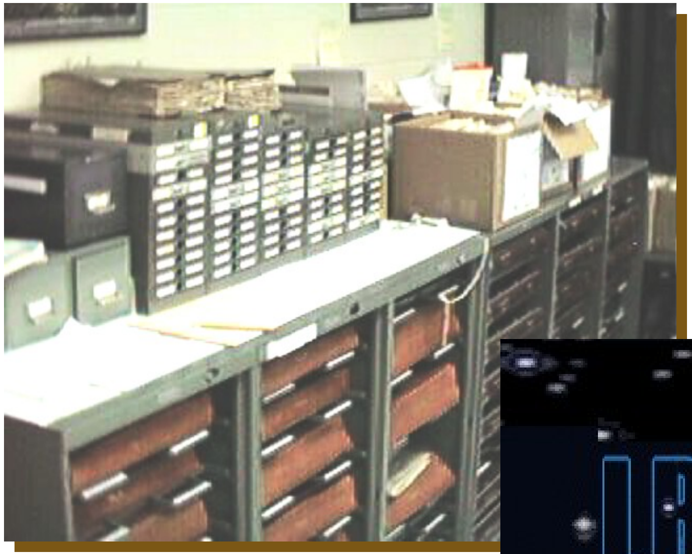
Spatial Navigator


cowboy2 - Terminal Services Client
Nils Workflow - Microsoft Internet Explorer
Job-BLMNEVADA85-2 - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:80,573
Editor
Task: Create New Feature
Target: dev:sde.NV_Points
Layers
BLMNEVADA85
dev:sde.NV_Points
dev:sde.NV_Lines
AOI_NV_Townships
NV_Anno
Display Source Selection Visibility
SFF Importer
General Settings
Start editing
Set display units and t
Spatial Navigator
SID
Townships My Views
NV21T0190N0690E
1
2
3
NV21T0190N0690E
114°15'37.19"W 39°32'43.73"
JobID: BLM-NE
State: NEVAD
Folder: SFF Im
Agency: BLM
User: AVWOF robe35
refre
go ba
main
help
Workflow
SFFImporter2
ImportAndA
Start
Inbox - ...
Visual S...
synerg...
Bob
Search ...
cowbo...
untitled...

Zoom To township

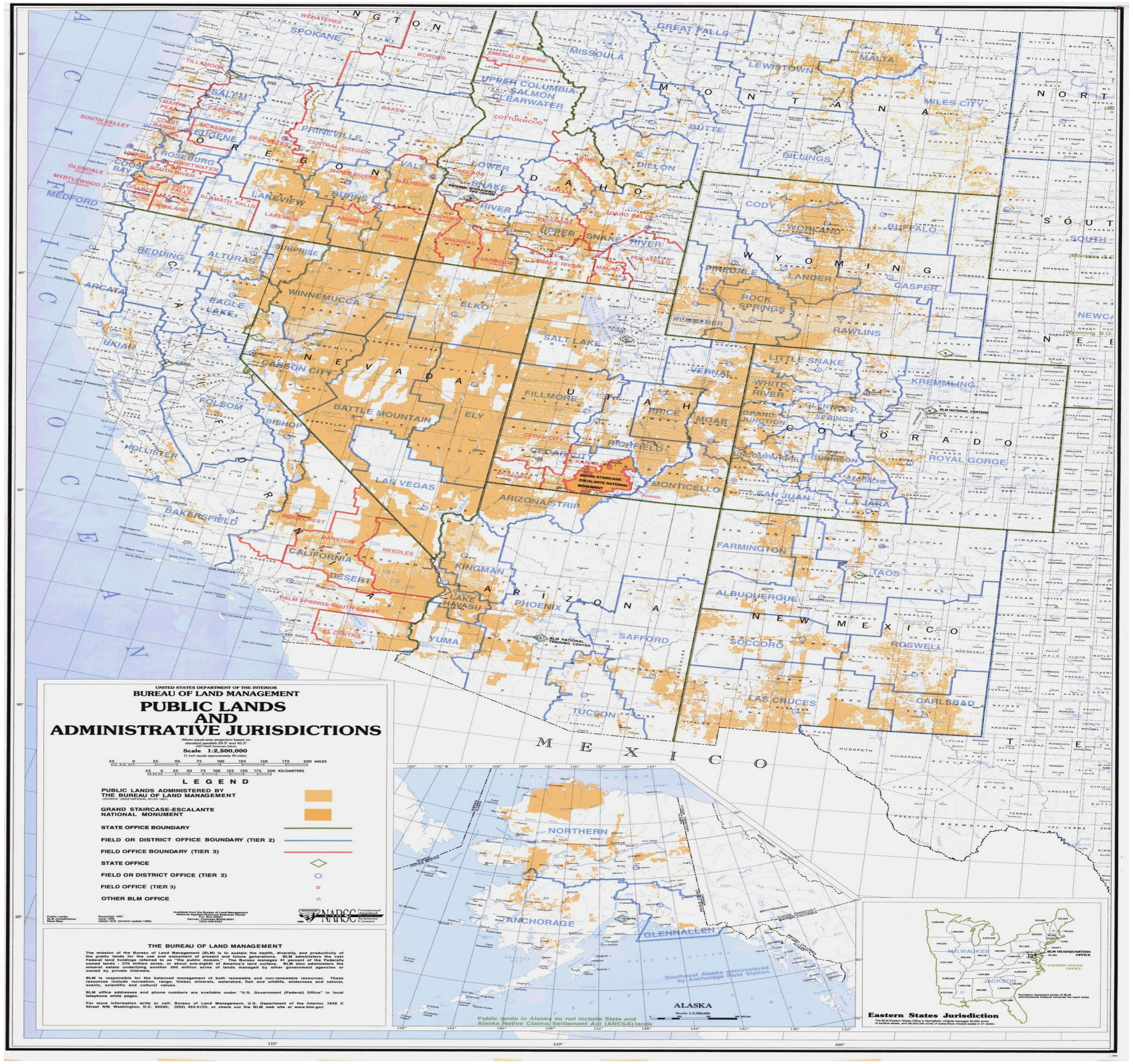
Zoom to user defined view (persisted per job) – minimum enclosing envelope

Spatially enablin Public Land Records



LR2000

Federal Land Ownership Statu


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PUBLIC LANDS AND ADMINISTRATIVE JURISDICTIONS
Albers equal-area projection based on standard parallels 29.5° and 45.5°
1927 North American Datum
Scale 1:2,500,000
(1 inch equals approximately 40 miles)
LEGEND
PUBLIC LANDS ADMINISTERED BY THE BUREAU OF LAND MANAGEMENT
(SOURCE: USGS NATIONAL ATLAS 1997)
GRAND STAIRCASE-ESCALANTE NATIONAL MONUMENT
STATE OFFICE BOUNDARY
FIELD OR DISTRICT OFFICE BOUNDARY (TIER 2)
FIELD OFFICE BOUNDARY (TIER 3)
STATE OFFICE
FIELD OR DISTRICT OFFICE (TIER 2)
FIELD OFFICE (TIER 3)
OTHER BLM OFFICE
MILES
KILOMETERS
Public Lands: December 1997
BLM Jurisdictions: June 1998
Base Map: USGS 1972 (limited update 1980)
Available from the Bureau of Land Management National Applied Resource Sciences Center P.O. Box 25047 Denver, Colorado 80225-0047 (303) 236-6454
NARSC National Applied Resource Sciences Center
PACIFIC OCEAN
OREGON
IDAHO
MONTANA
WYOMING
NEVADA
UTAH
COLORADO
CALIFORNIA
ARIZONA
NEW MEXICO
MEXICO
NORTHERN
ANCHORAGE
GLENNALLEN
ALASKA
Public lands in Alaska do not include State and Alaska Native Claims Settlement Act (ANCSA) lands
Eastern States Jurisdiction

THE BUREAU OF LAND MANAGEMENT

The mission of the Bureau of Land Management (BLM) is to sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations. BLM administers the vast Federal land holdings referred to as "the public domain." The Bureau manages 41 percent of the Federally owned lands - 270 million acres, or about one-eighth of America's land surface. BLM also administers the mineral estate underlying another 300 million acres of lands managed by other government agencies or owned by private interests.

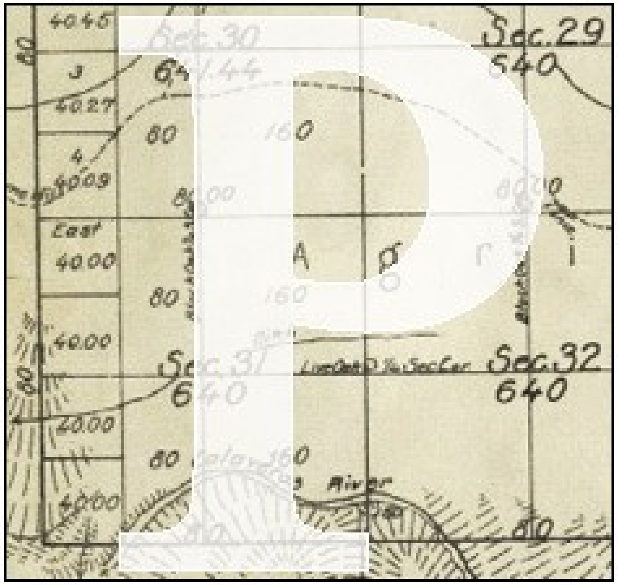
BLM is responsible for the balanced management of both renewable and non-renewable resources. These resources include recreation, range, timber, minerals, watershed, fish and wildlife, wilderness and natural, scenic, scientific and cultural values.

BLM office addresses and phone numbers are available under "U.S. Government (Federal) Office" in local telephone white pages.

For more information write or call: Bureau of Land Management, U.S. Department of the Interior, 1849 C Street NW, Washington, D.C. 20240; (202) 452-5125; or check out the BLM web site at www.blm.gov

National Integrated Land System

NILS


Sec.30
641.44
Sec.29
640
40.45
3
40.27
4
40.09
80
160
80.00
East
40.00
80
160
40.00
Sec.31
640
Sec.32
640
40.00
80
160
40.00
River
80

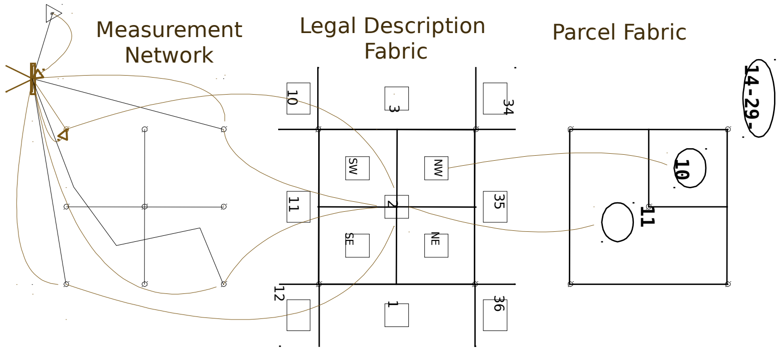
Parcel Management

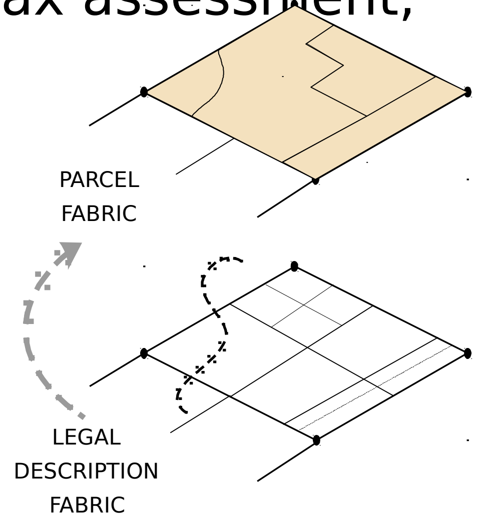
Parcel Management

Provides a process for managing land records and cadastral feature data stored in the database model.

Provides custom feature classes, tools, and procedures for editing land records in a transactional, history-tracking environment.

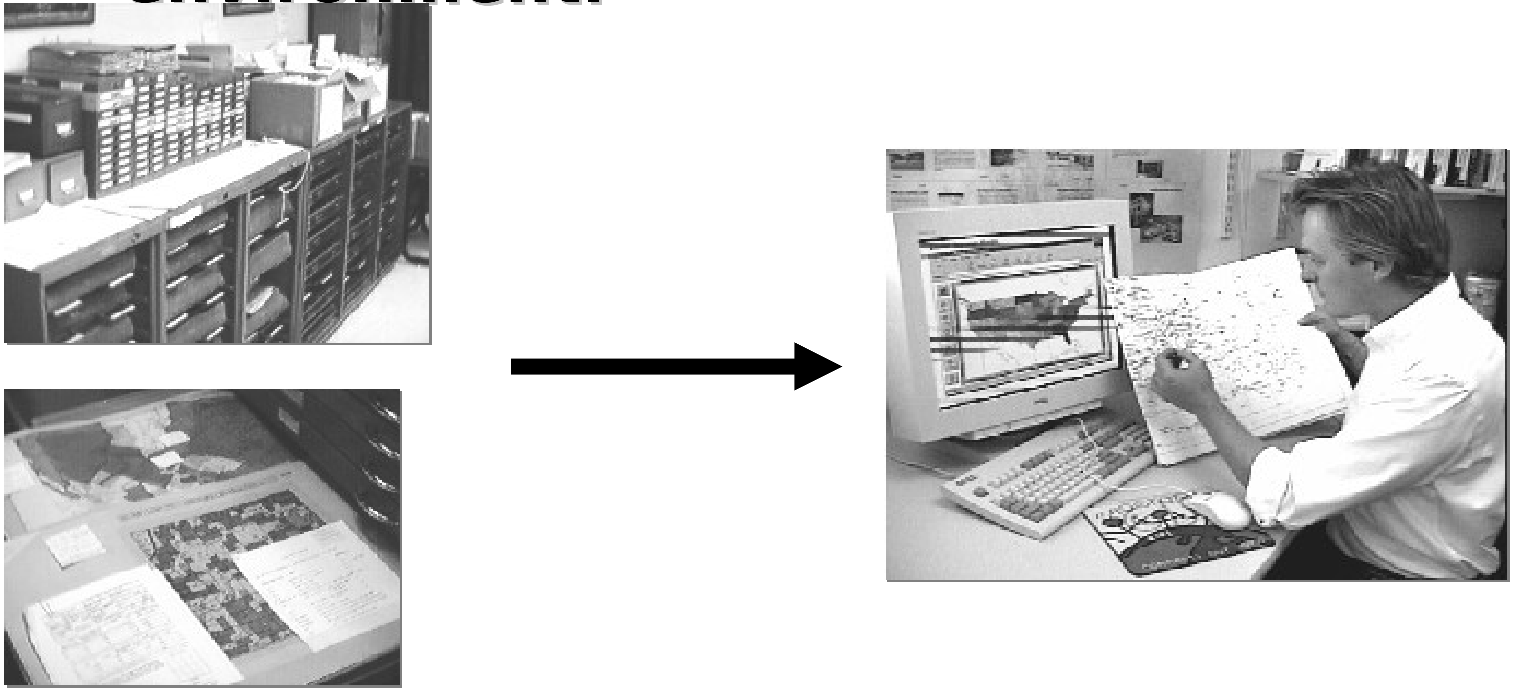
Support will be provided to allow users to construct and edit legal description fabrics and to create required parcel fabrics from them. Parcel fabrics may include ownership, land use rights, tax assessment, and others.


Measurement Network
Legal Description Fabric
Parcel Fabric
10
3
34
14-29
SW
NW
10
11
2
35
11
SE
NE
12
1
36

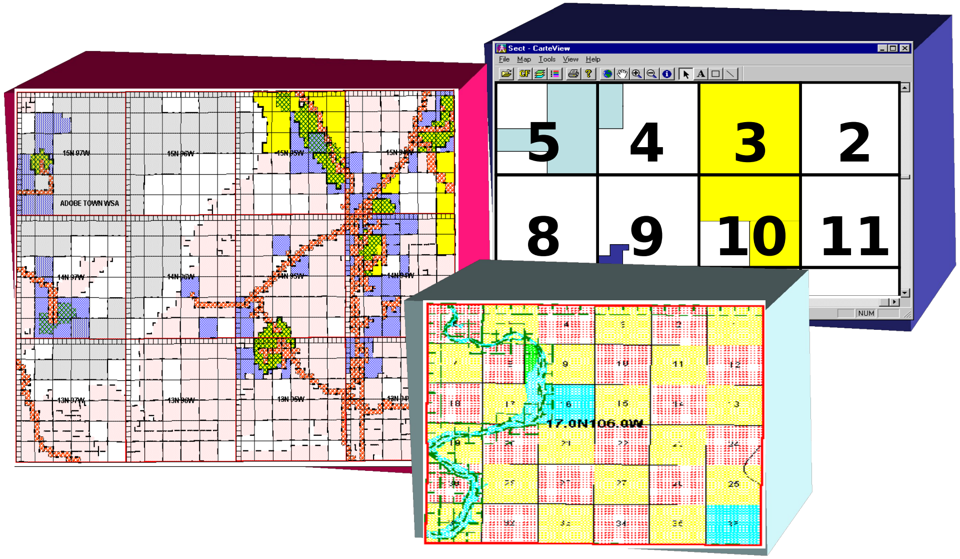

PARCEL FABRIC
LEGAL DESCRIPTION FABRIC

Parcel Management

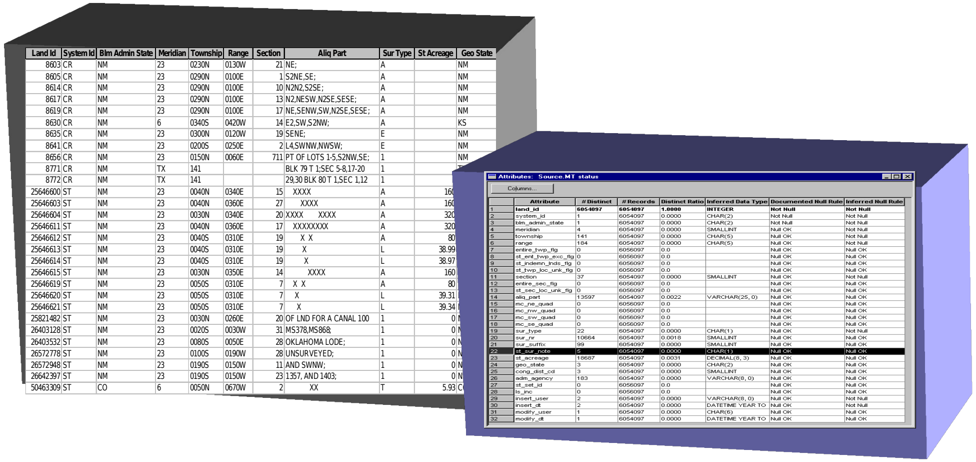
The business processes necessary to maintain land records in an automated environment.



Data Integration



Spatial Display



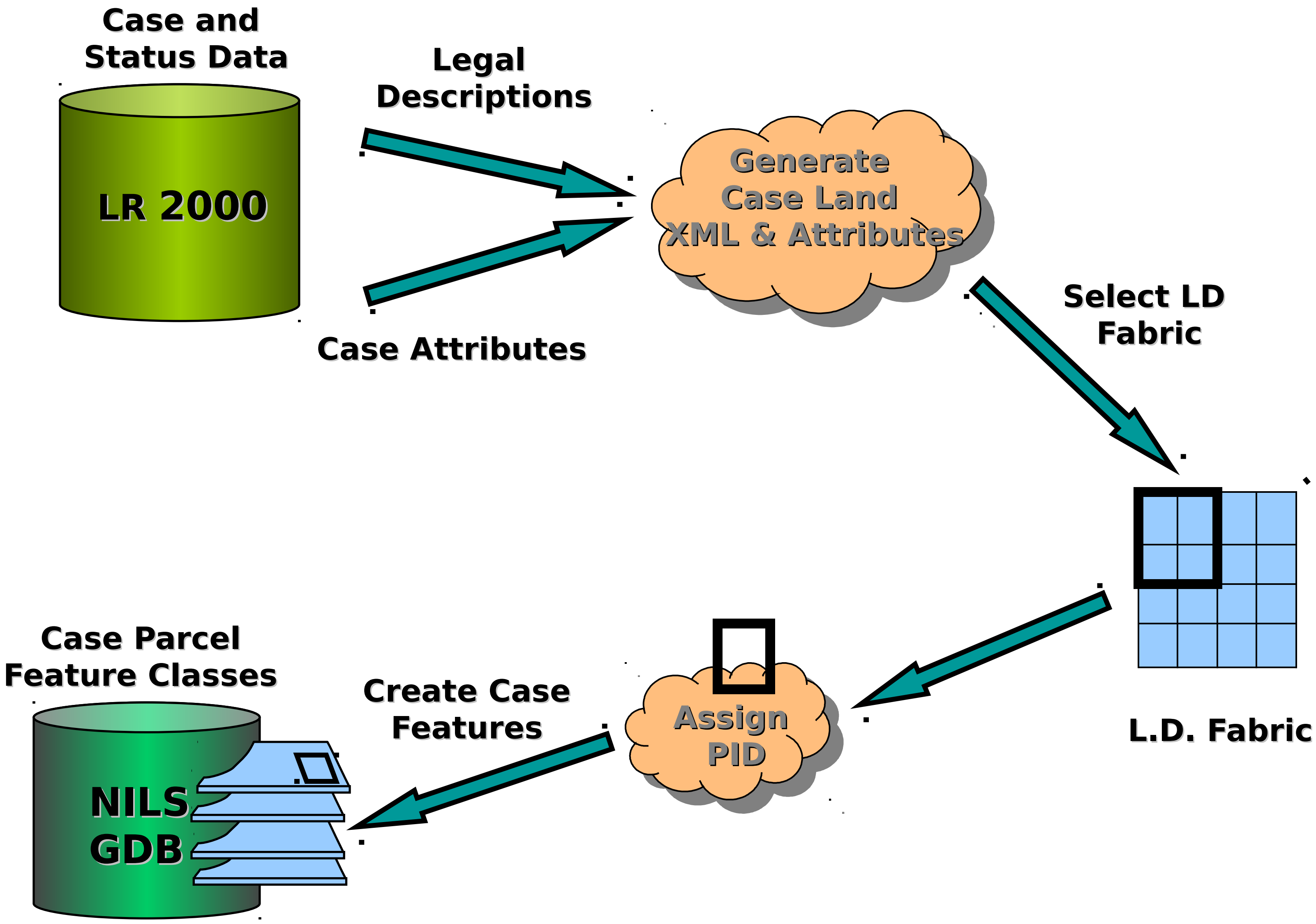
Land Id	System Id	Blm Admin State	Meridian	Township	Range	Section	Aliq Part	Sur Type	St Acreage	Geo State
8603	CR	NM	23	0230N	0130W	21	NE;	A		NM
8605	CR	NM	23	0290N	0100E	1	S2NE,SE;	A		NM
8614	CR	NM	23	0290N	0100E	10	N2N2,S2SE;	A		NM
8617	CR	NM	23	0290N	0100E	13	N2,NESW,N2SE,SESE;	A		NM
8619	CR	NM	23	0290N	0100E	17	NE,SENW,SW,N2SE,SESE;	A		NM
8630	CR	NM	6	0340S	0420W	14	E2,SW,S2NW;	A		KS
8635	CR	NM	23	0300N	0120W	19	SENE;	E		NM
8641	CR	NM	23	0200S	0250E	2	L4,SWNW,NWSW;	E		NM
8656	CR	NM	23	0150N	0060E	711	PT OF LOTS 1-5,S2NW,SE;	1		NM
8771	CR	NM	TX	141			BLK 79 T 1;SEC 5-8,17-20	1		
8772	CR	NM	TX	141			29,30 BLK 80 T 1,SEC 1,12	1		
25646600	ST	NM	23	0040N	0340E	15	XXXX	A	160	
25646603	ST	NM	23	0040N	0360E	27	XXXX	A	160	
25646604	ST	NM	23	0030N	0340E	20	XXXX XXXX	A	320	
25646611	ST	NM	23	0040N	0360E	17	XXXXXXXX	A	320	
25646612	ST	NM	23	0040S	0310E	19	X X	A	80	
25646613	ST	NM	23	0040S	0310E	19	X	L	38.99	
25646614	ST	NM	23	0040S	0310E	19	X	L	38.97	
25646615	ST	NM	23	0030N	0350E	14	XXXX	A	160	
25646619	ST	NM	23	0050S	0310E	7	X X	A	80	
25646620	ST	NM	23	0050S	0310E	7	X	L	39.31	
25646621	ST	NM	23	0050S	0310E	7	X	L	39.34	
25821482	ST	NM	23	0030N	0260E	20	OF LND FOR A CANAL 100	1	0	N
26403128	ST	NM	23	0020S	0030W	31	MS378,MS868;	1	0	N
26403532	ST	NM	23	0080S	0050E	28	OKLAHOMA LODE;	1	0	N
26572778	ST	NM	23	0100S	0190W	28	UNSURVEYED;	1	0	N
26572948	ST	NM	23	0190S	0150W	11	AND SWNW;	1	0	N
26642397	ST	NM	23	0190S	0150W	23	1357, AND 1403;	1	0	N
50463309	ST	CO	6	0050N	0670W	2	XX	T	5.93	C

Attributes: Source.MT status

	Attribute	# Distinct	# Records	Distinct Ratio	Inferred Data Type	Documented Null Rule	Inferred Null Rule
1	**land_id**	**6054097**	**6054097**	**1.0000**	**INTEGER**	**Not Null**	**Not Null**
2	system_id	1	6054097	0.0000	CHAR(2)	Not Null	Not Null
3	blm_admin_state	1	6054097	0.0000	CHAR(2)	Not Null	Not Null
4	meridian	4	6054097	0.0000	SMALLINT	Null OK	Not Null
5	township	141	6054097	0.0000	CHAR(5)	Null OK	Not Null
6	range	184	6054097	0.0000	CHAR(5)	Null OK	Not Null
7	entire_twp_flg	0	6056097	0.0		Null OK	Null OK
8	st_ent_twp_exc_flg	0	6056097	0.0		Null OK	Null OK
9	st_indemn_lnds_flg	0	6056097	0.0		Null OK	Null OK
10	st_twp_loc_unk_flg	0	6056097	0.0		Null OK	Null OK
11	section	37	6054097	0.0000	SMALLINT	Null OK	Not Null
12	entire_sec_flg	0	6056097	0.0		Null OK	Null OK
13	st_sec_loc_unk_flg	0	6056097	0.0		Null OK	Null OK
14	aliq_part	13597	6054097	0.0022	VARCHAR(25, 0)	Null OK	Null OK
15	mc_ne_quad	0	6056097	0.0		Null OK	Null OK
16	mc_nw_quad	0	6056097	0.0		Null OK	Null OK
17	mc_sw_quad	0	6056097	0.0		Null OK	Null OK
18	mc_se_quad	0	6056097	0.0		Null OK	Null OK
19	sur_type	22	6054097	0.0000	CHAR(1)	Null OK	Not Null
20	sur_nr	10664	6054097	0.0018	SMALLINT	Null OK	Null OK
21	sur_suffix	99	6054097	0.0000	SMALLINT	Null OK	Null OK
22	st_sur_note	5	6054097	0.0000	CHAR(1)	Null OK	Null OK
23	st_acreage	18687	6054097	0.0031	DECIMAL(8, 3)	Null OK	Null OK
24	geo_state	3	6054097	0.0000	CHAR(2)	Null OK	Null OK
25	cong_dist_cd	3	6054097	0.0000	SMALLINT	Null OK	Null OK
26	adm_agency	183	6054097	0.0000	VARCHAR(8, 0)	Null OK	Null OK
27	st_set_id	0	6056097	0.0		Null OK	Null OK
28	ls_inc	0	6056097	0.0		Null OK	Null OK
29	insert_user	2	6054097	0.0000	VARCHAR(8, 0)	Null OK	Not Null
30	insert_dt	2	6054097	0.0000	DATETIME YEAR TO	Null OK	Not Null
31	modify_user	1	6054097	0.0000	CHAR(6)	Null OK	Null OK
32	modify_dt	1	6054097	0.0000	DATETIME YEAR TO	Null OK	Null OK

LR 2000

Creating Case Parcel Features from LR2000



Case and Status Data

LR 2000

Legal Descriptions

Case Attributes

Generate Case Land XML & Attributes

Select LD Fabric

L.D. Fabric

Assign PID

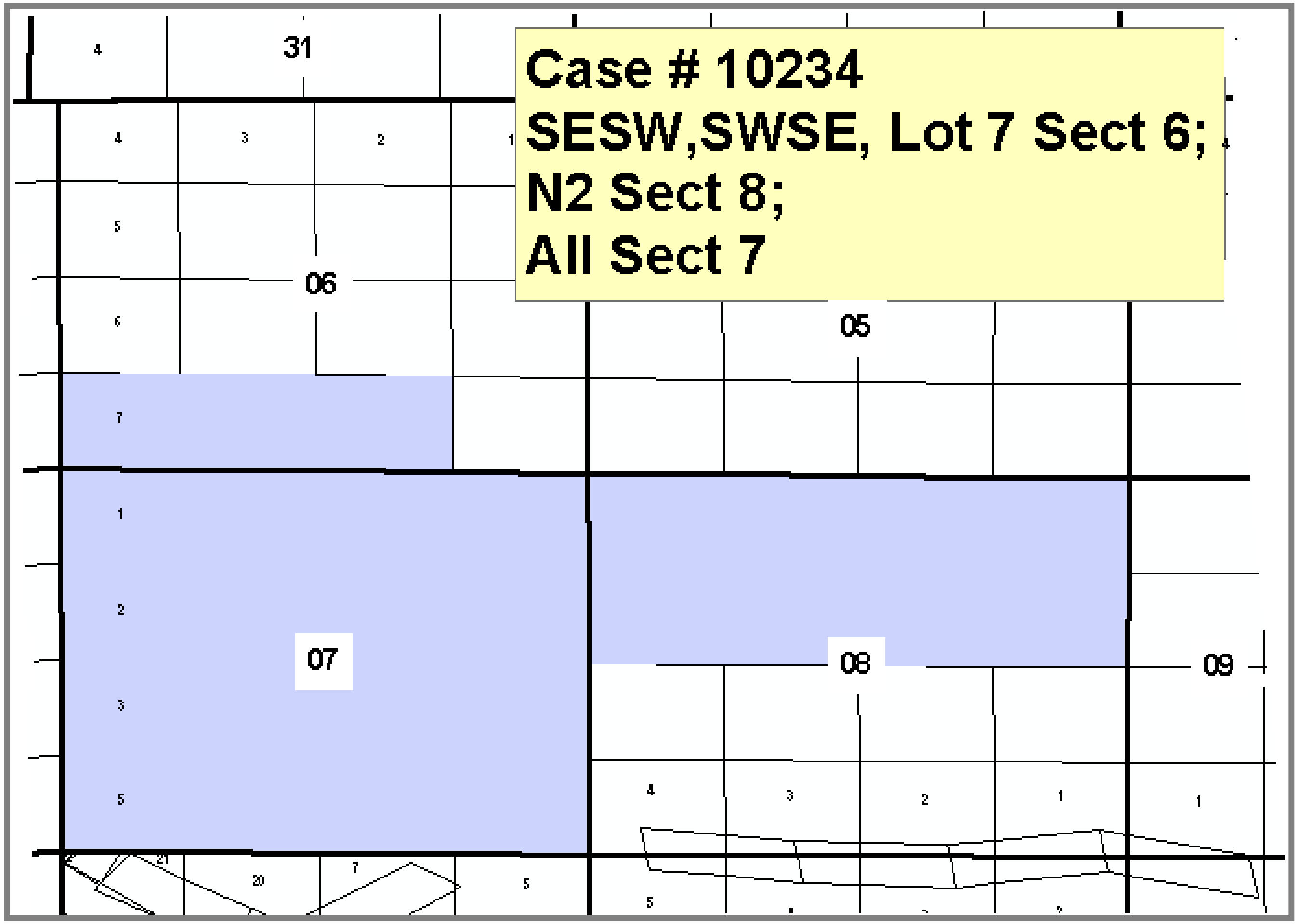
Create Case Features

Case Parcel Feature Classes

NILS GDB

Create Case Parcel Features

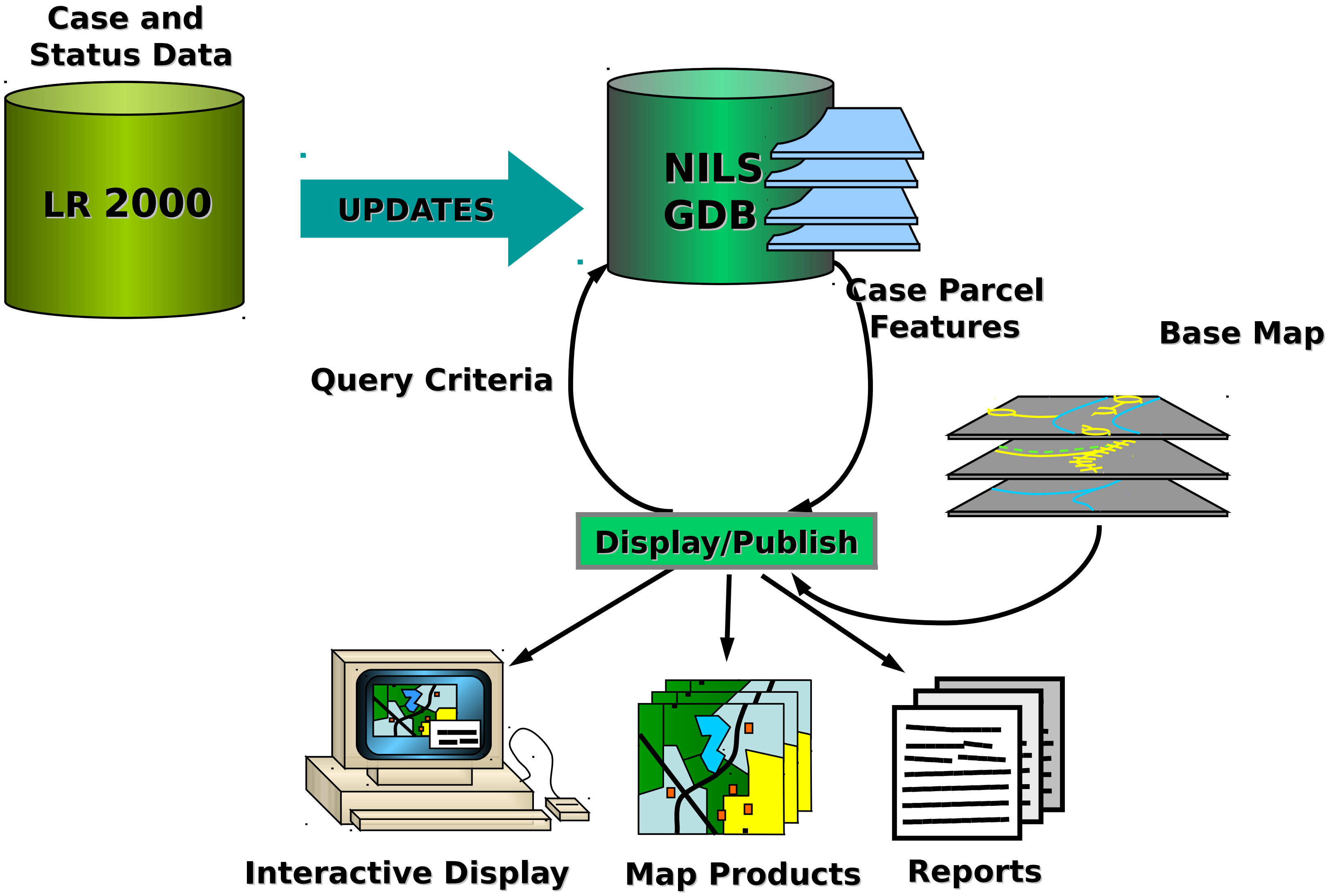
Selecting Geometry based on Legal Descriptions:



Case # 10234
SESW,SWSE, Lot 7 Sect 6;
N2 Sect 8;
All Sect 7

31
06
05
07
08
09
4
3
2
1
5
6
7

Displaying Cases in ArcGIS



Case and Status Data

LR 2000

UPDATES

NILS GDB

Case Parcel Features

Base Map

Query Criteria

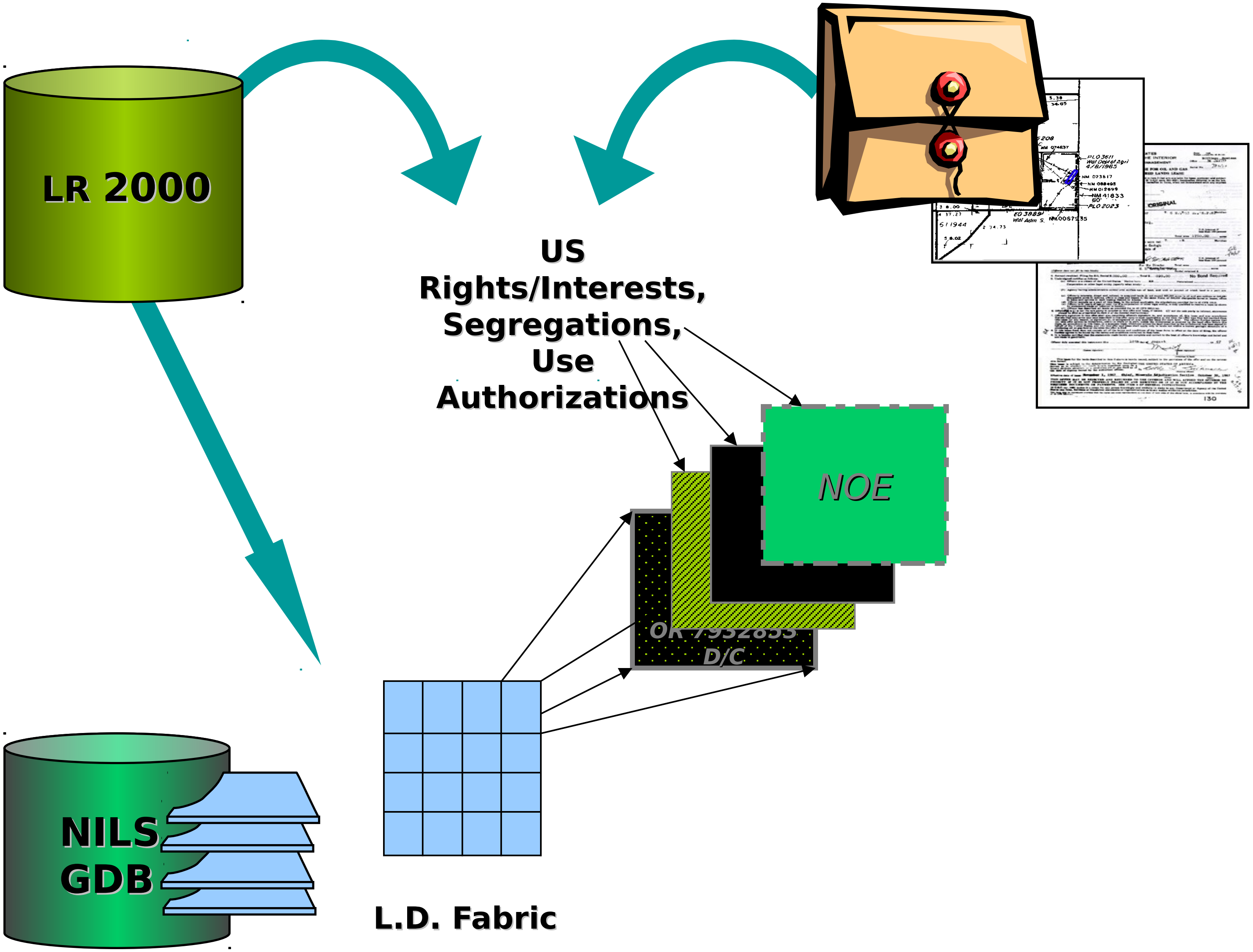
Display/Publish

Interactive Display

Map Products

Reports

Deriving Land Status (Future Phase)



LR 2000

US Rights/Interests, Segregations, Use Authorizations

NOE

OR 7932833 D/C

NILS GDB

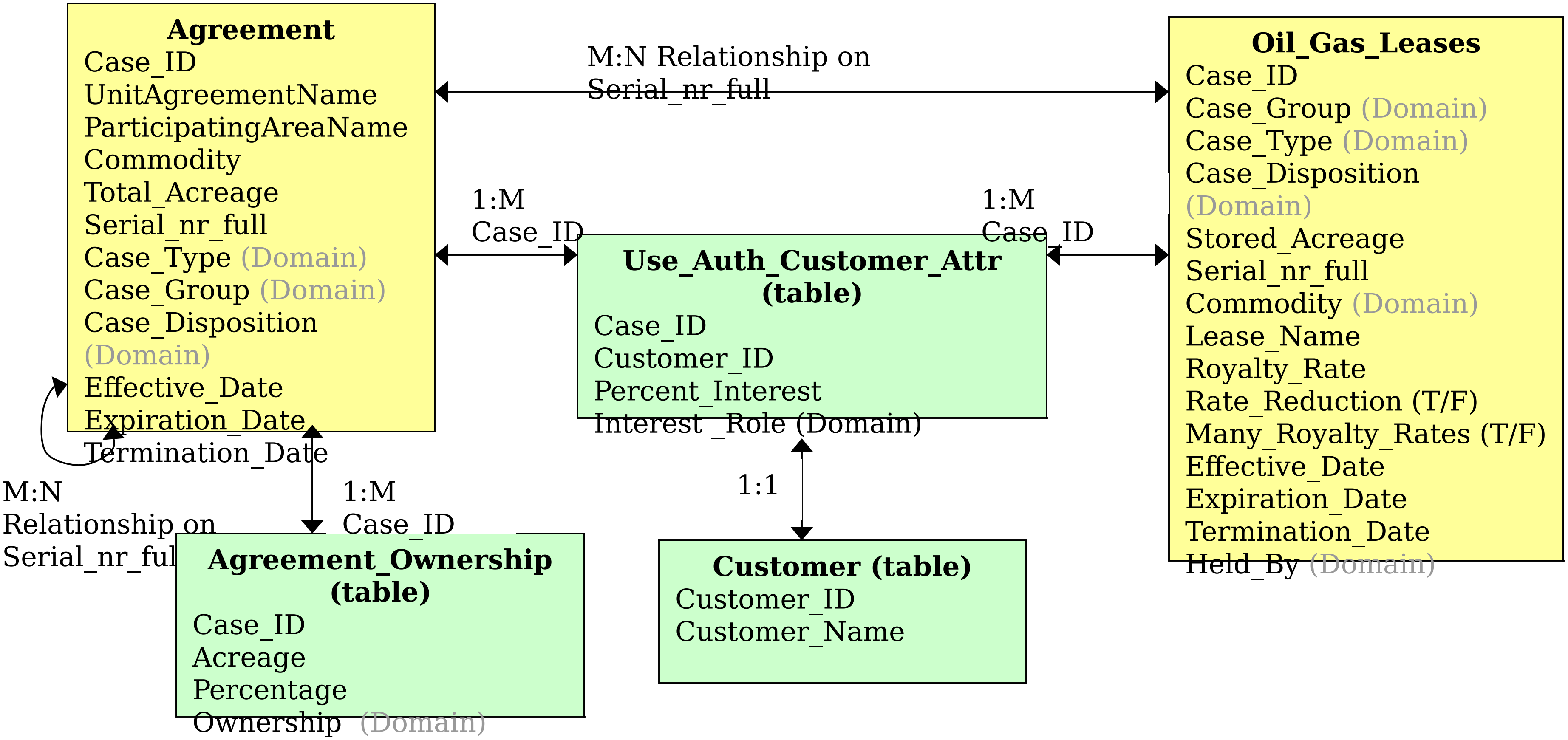
L.D. Fabric

NILS Mining Claims

- Display claims by type
- Display active or closed claims
- Label with claim name or serial number
- Display with reference themes:
  - survey, roads, topographic map, orthophoto
- Links directly to LR2000 reports

Oil & Gas Case Data

AvailableNow



Agreement
Case_ID
UnitAgreementName
ParticipatingAreaName
Commodity
Total_Acreage
Serial_nr_full
Case_Type (Domain)
Case_Group (Domain)
Case_Disposition (Domain)
Effective_Date
Expiration_Date
Termination_Date

M:N Relationship on Serial_nr_full

1:M Case_ID

Use_Auth_Customer_Attr (table)
Case_ID
Customer_ID
Percent_Interest
Interest _Role (Domain)

1:M Case_ID

Oil_Gas_Leases
Case_ID
Case_Group (Domain)
Case_Type (Domain)
Case_Disposition (Domain)
Stored_Acreage
Serial_nr_full
Commodity (Domain)
Lease_Name
Royalty_Rate
Rate_Reduction (T/F)
Many_Royalty_Rates (T/F)
Effective_Date
Expiration_Date
Termination_Date
Held_By (Domain)

M:N Relationship on Serial_nr_full

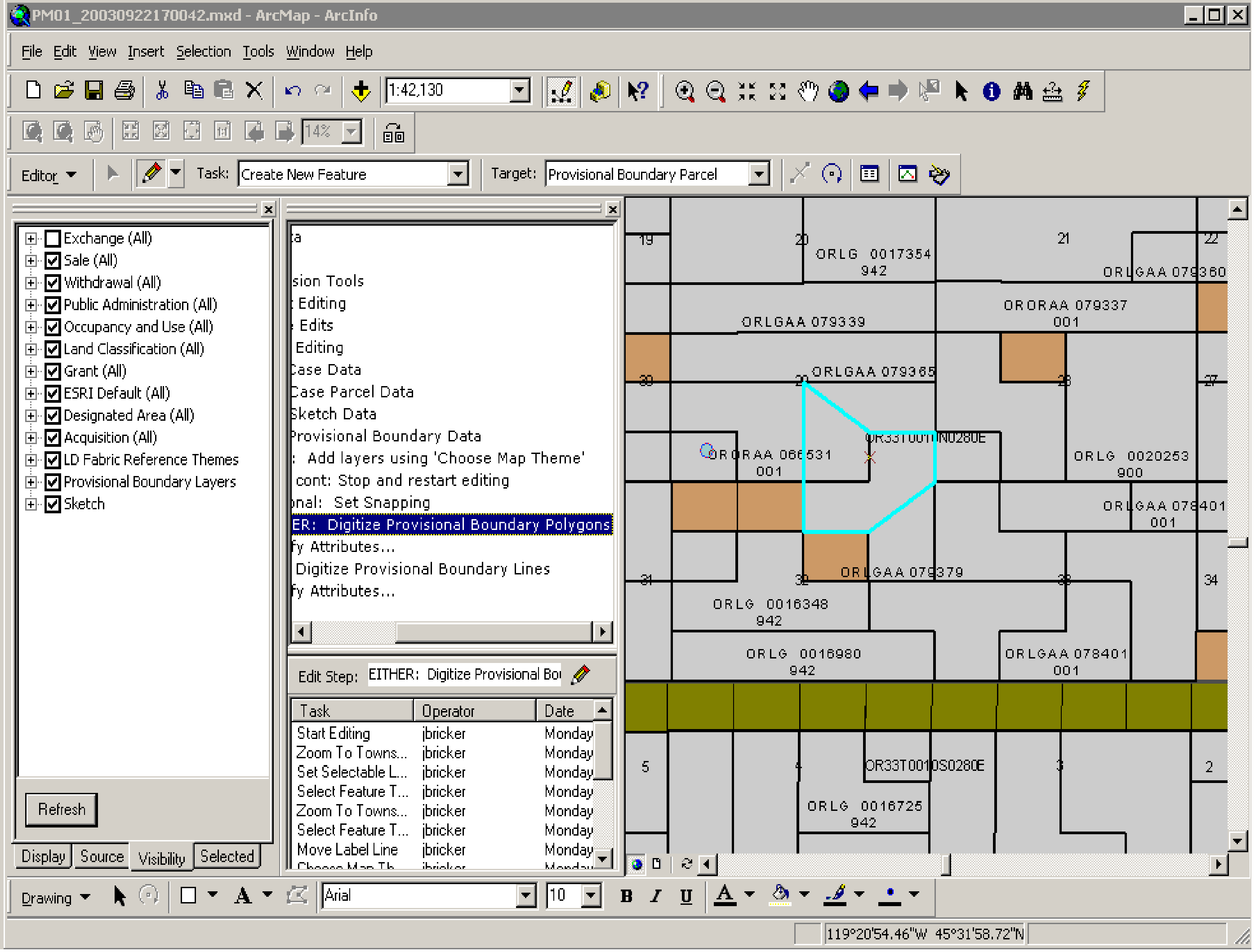
1:M Case_ID

1:1

Agreement_Ownership (table)
Case_ID
Acreage
Percentage
Ownership (Domain)

Customer (table)
Customer_ID
Customer_Name

First Step in automating Master Title


PM01_20030922170042.mxd - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:42,130
14%
Editor
Drawing
Arial
10
Refresh
Display Source Visibility Selected
19
20
21
22
ORLG 0017354
942
ORLGAA 079360
ORLGAA 079339
ORORAA 079337
001
30
29
ORLGAA 079365
28
27
OR33T0010N0280E
ORORAA 066531
001
ORLG 0020253
900
ORLGAA 078401
001
31
32
ORLGAA 079379
33
34
ORLG 0016348
942
ORLG 0016980
942
ORLGAA 078401
001
5
4
OR33T0010S0280E
3
2
ORLG 0016725
942
119°20'54.46"W 45°31'58.72"N

Task: Create New Feature

Target: Provisional Boundary Parcel

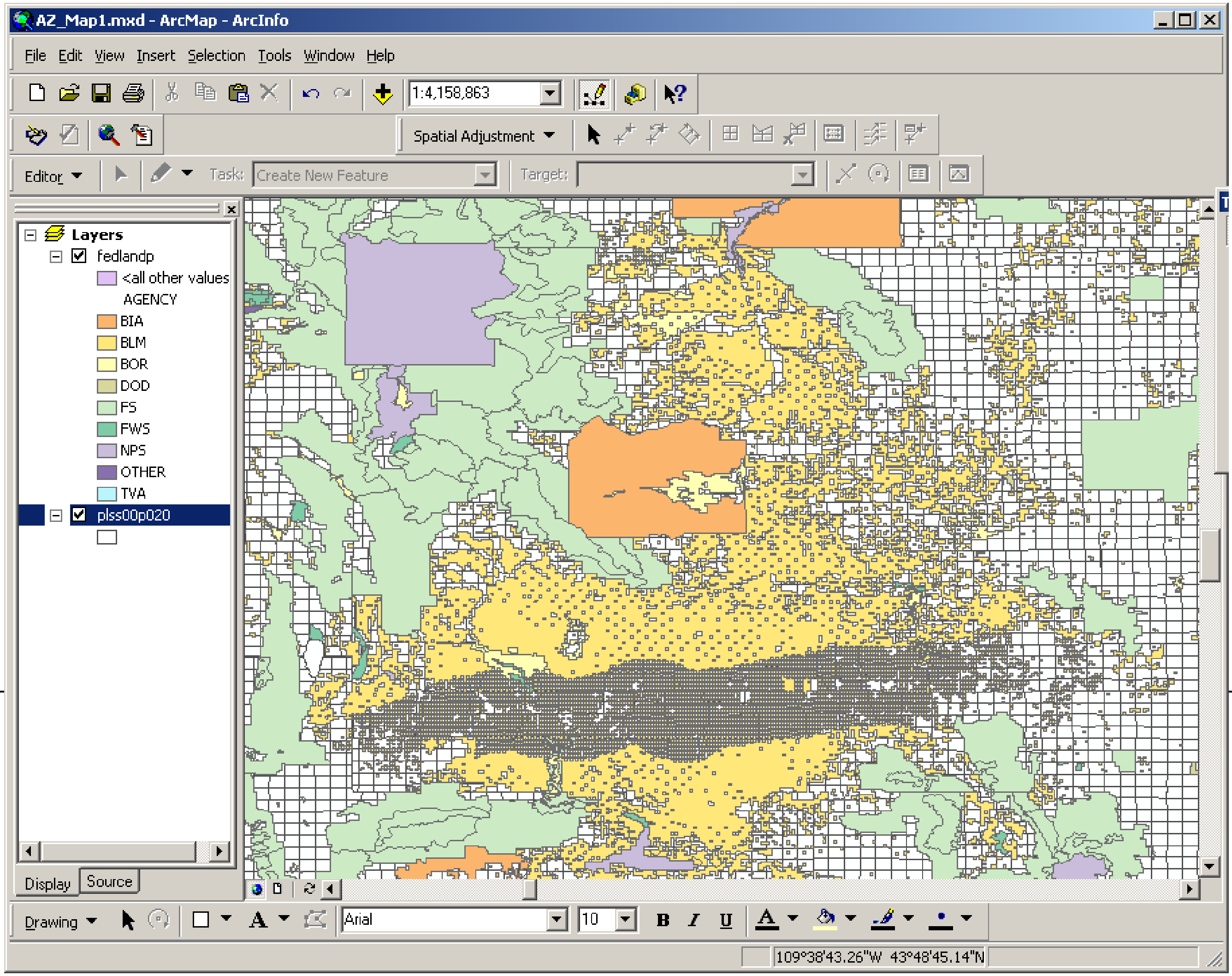
☐ Exchange (All)
☑ Sale (All)
☑ Withdrawal (All)
☑ Public Administration (All)
☑ Occupancy and Use (All)
☑ Land Classification (All)
☑ Grant (All)
☑ ESRI Default (All)
☑ Designated Area (All)
☑ Acquisition (All)
☑ LD Fabric Reference Themes
☑ Provisional Boundary Layers
☑ Sketch

ta
sion Tools
Editing
Edits
Editing
Case Data
Case Parcel Data
Sketch Data
Provisional Boundary Data
: Add layers using 'Choose Map Theme'
cont: Stop and restart editing
nal: Set Snapping
ER: Digitize Provisional Boundary Polygons
fy Attributes...
Digitize Provisional Boundary Lines
fy Attributes...

Edit Step: EITHER: Digitize Provisional Bou

Task	Operator	Date
Start Editing	jbricker	Monday
Zoom To Towns...	jbricker	Monday
Set Selectable L...	jbricker	Monday
Select Feature T...	jbricker	Monday
Zoom To Towns...	jbricker	Monday
Select Feature T...	jbricker	Monday
Move Label Line	jbricker	Monday

- **Preparation of SMA (Surface Management Agency) data**


AZ_Map1.mxd - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
Spatial Adjustment
Editor
Target:
Layers
fedlandp
<all other values
AGENCY
BIA
BLM
BOR
DOD
FS
FWS
NPS
OTHER
TVA
plss00p020
Display
Source
Drawing
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U
A

1:4,158,863

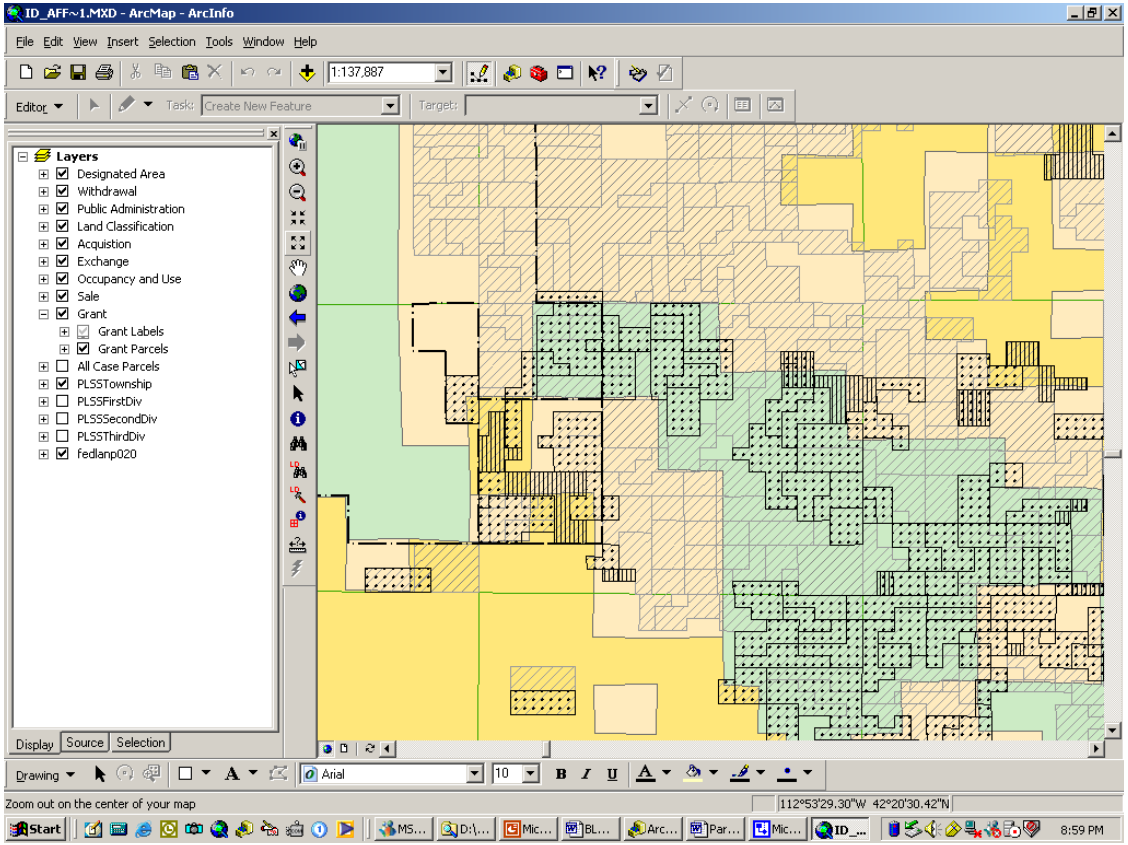
Task: Create New Feature

Arial 10

109°38'43.26"W 43°48'45.14"N

Surface Management Agency

- **New job for editing SMA**
- **Default base map for every PM job**

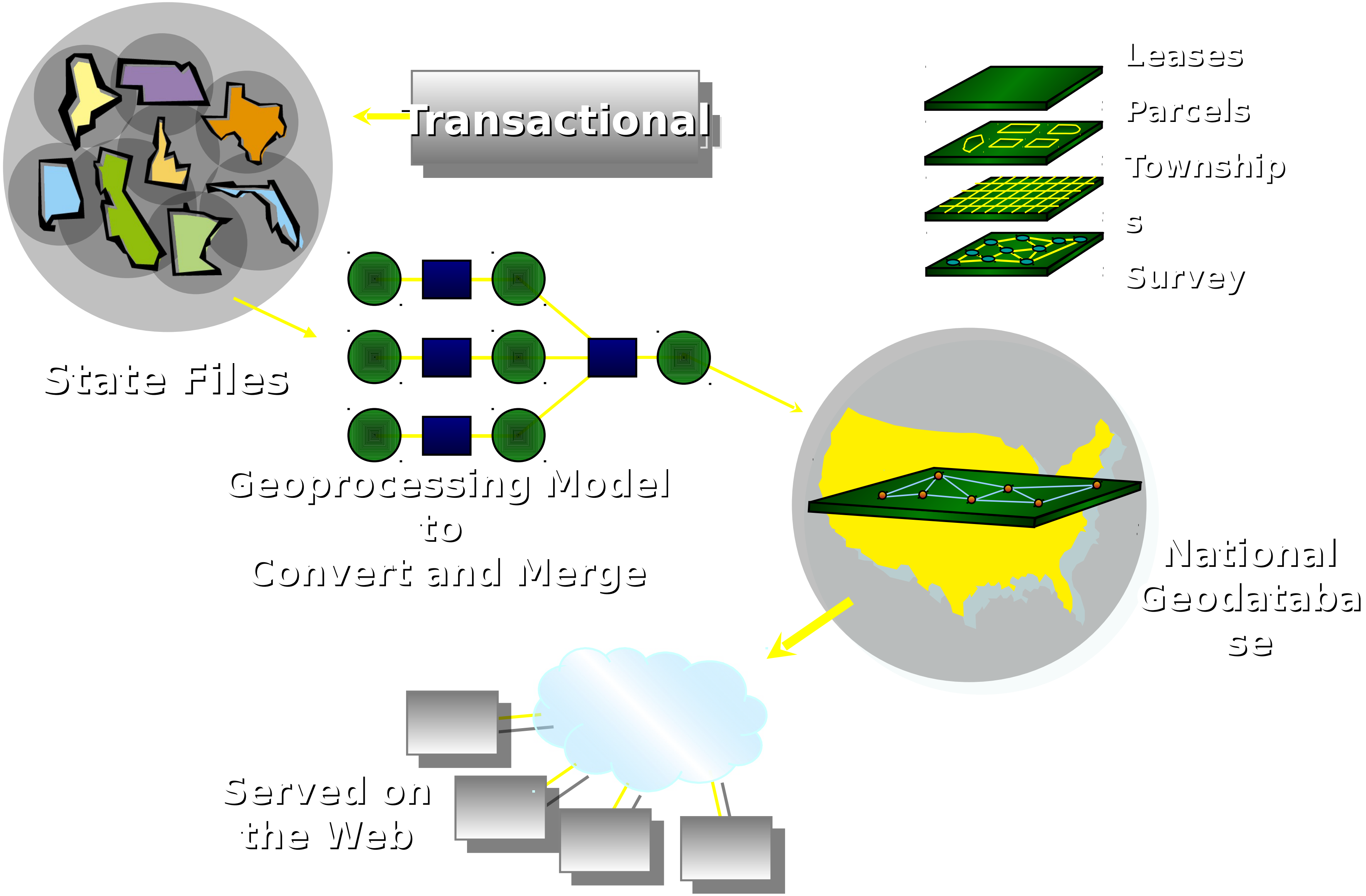

ID_AFF~1.MXD - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
1:137,887
Editor
Task: Create New Feature
Target:
Display Source Selection
Drawing
Arial
10
B I U
Start
MS... D:\... Mic... BL... Arc... Par... Mic... ID_...
8:59 PM

Layers
- ☑ Designated Area
- ☑ Withdrawal
- ☑ Public Administration
- ☑ Land Classification
- ☑ Acquistion
- ☑ Exchange
- ☑ Occupancy and Use
- ☑ Sale
- ☑ Grant
  - ☑ Grant Labels
  - ☑ Grant Parcels
- ☐ All Case Parcels
- ☑ PLSSTownship
- ☐ PLSSFirstDiv
- ☐ PLSSSecondDiv
- ☐ PLSSThirdDiv
- ☑ fedlanp020

Zoom out on the center of your map

112°53'29.30"W 42°20'30.42"N

BLM Uses Model Builder



Transactional

Leases

Parcels

Townships

Survey

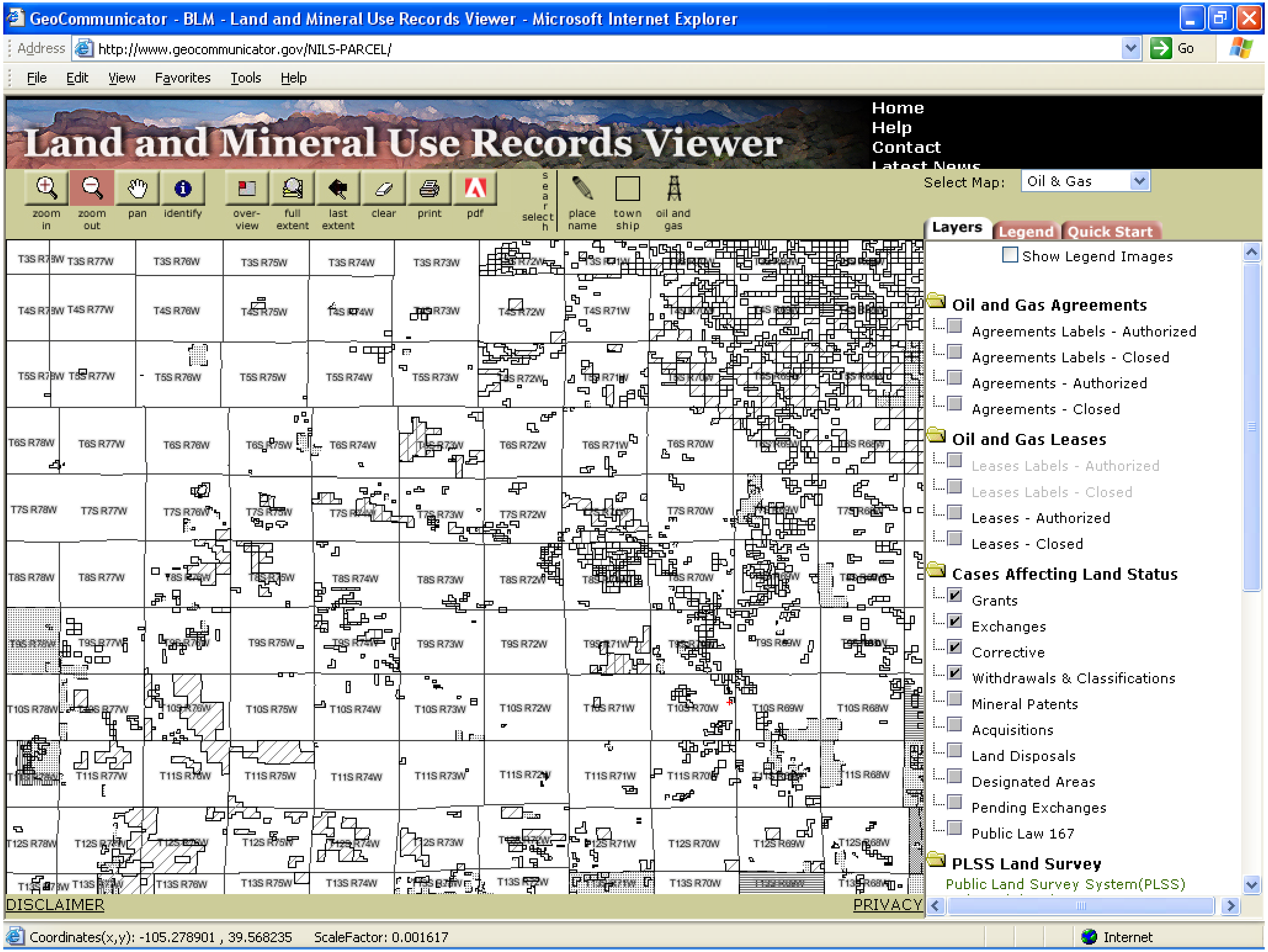
State Files

Geoprocessing Model
to
Convert and Merge

National
Geodatabase

Served on
the Web

Cases Affecting Land Status


GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer
Address
Go
File
Edit
View
Favorites
Tools
Help
Land and Mineral Use Records Viewer
Home
Help
Contact
Latest News
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
pdf
search
select
place name
town ship
oil and gas
Layers
Legend
Quick Start
DISCLAIMER
PRIVACY
Internet

http://www.geocommunicator.gov/NILS-PARCEL/

Select Map: Oil & Gas

☐ Show Legend Images

Oil and Gas Agreements
- ☐ Agreements Labels - Authorized
- ☐ Agreements Labels - Closed
- ☐ Agreements - Authorized
- ☐ Agreements - Closed

Oil and Gas Leases
- ☐ Leases Labels - Authorized
- ☐ Leases Labels - Closed
- ☐ Leases - Authorized
- ☐ Leases - Closed

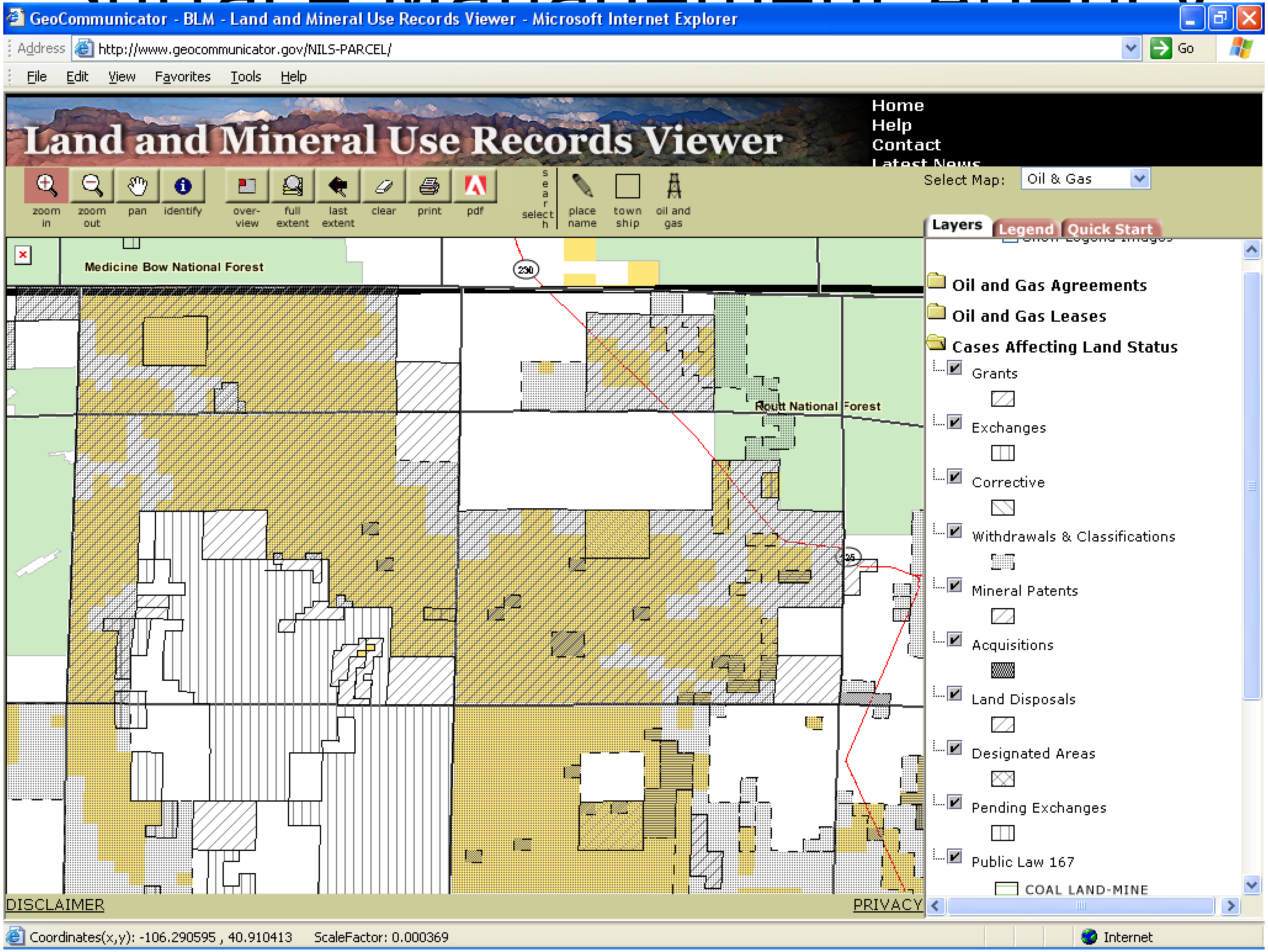
Cases Affecting Land Status
- ☑ Grants
- ☑ Exchanges
- ☑ Corrective
- ☑ Withdrawals & Classifications
- ☐ Mineral Patents
- ☐ Acquisitions
- ☐ Land Disposals
- ☐ Designated Areas
- ☐ Pending Exchanges
- ☐ Public Law 167

PLSS Land Survey

Public Land Survey System(PLSS)

Coordinates(x,y): -105.278901 , 39.568235 ScaleFactor: 0.001617

Cases Affecting Land Status with Surface Management Agency


GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer
Address
http://www.geocommunicator.gov/NILS-PARCEL/
Go
File
Edit
View
Favorites
Tools
Help
Land and Mineral Use Records Viewer
Home
Help
Contact
Latest News
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
pdf
search select
place name
town ship
oil and gas
Layers
Legend
Quick Start
Medicine Bow National Forest
230
Routt National Forest
125
DISCLAIMER
PRIVACY
Internet

Select Map: Oil & Gas

Oil and Gas Agreements

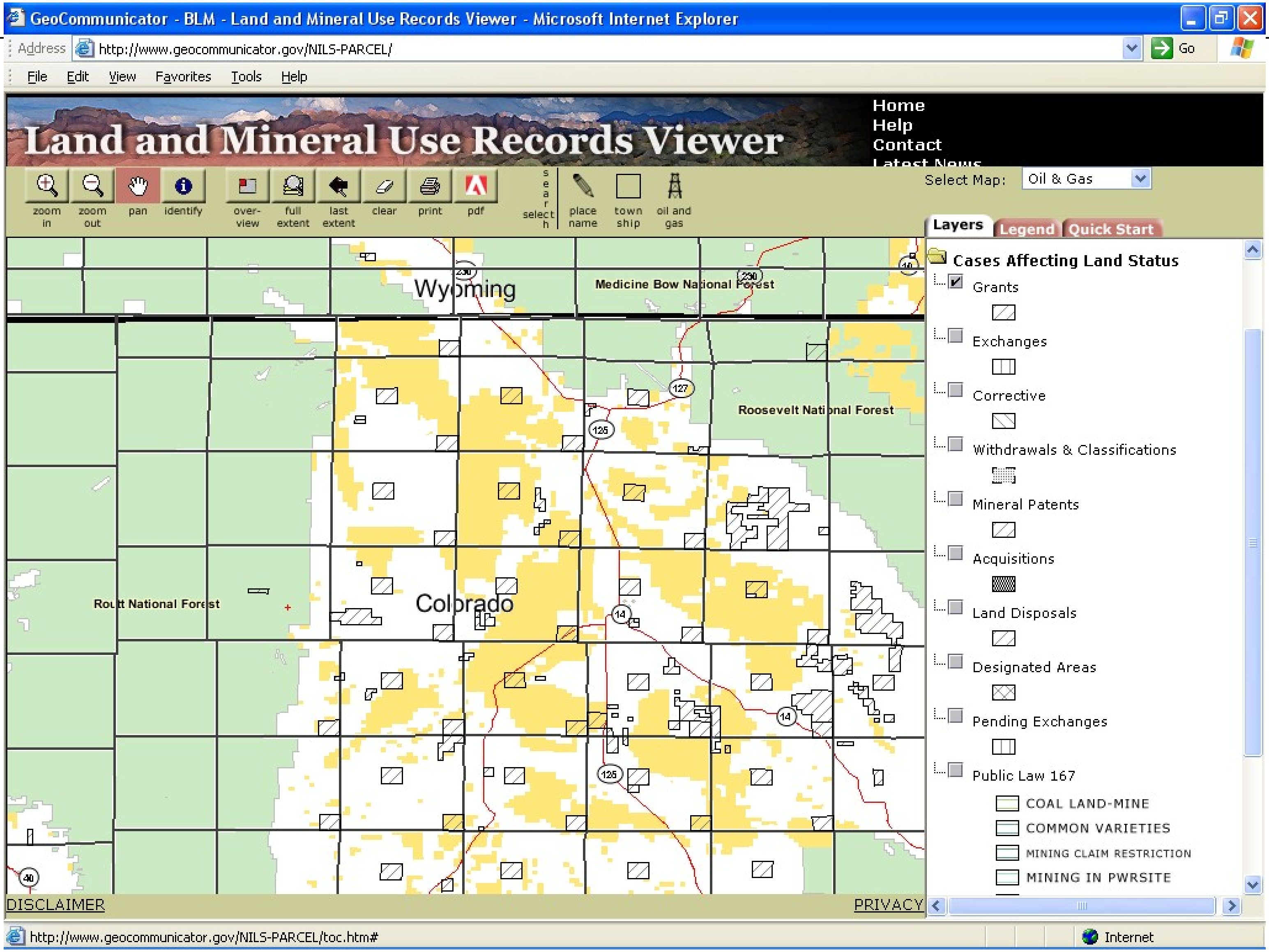
Oil and Gas Leases

Cases Affecting Land Status

- ☑ Grants ▨
- ☑ Exchanges ▥
- ☑ Corrective ▨
- ☑ Withdrawals & Classifications
- ☑ Mineral Patents ▨
- ☑ Acquisitions ▩
- ☑ Land Disposals ▨
- ☑ Designated Areas ▩
- ☑ Pending Exchanges ▥
- ☑ Public Law 167
  - COAL LAND-MINE

Coordinates(x,y): -106.290595 , 40.910413 ScaleFactor: 0.000369

Grants



GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer

Address http://www.geocommunicator.gov/NILS-PARCEL/

Select Map: Oil & Gas

Cases Affecting Land Status
- ☑ Grants
- ☐ Exchanges
- ☐ Corrective
- ☐ Withdrawals & Classifications
- ☐ Mineral Patents
- ☐ Acquisitions
- ☐ Land Disposals
- ☐ Designated Areas
- ☐ Pending Exchanges
- ☐ Public Law 167
  - COAL LAND-MINE
  - COMMON VARIETIES
  - MINING CLAIM RESTRICTION
  - MINING IN PWRSITE

http://www.geocommunicator.gov/NILS-PARCEL/toc.htm#

File
Edit
View
Favorites
Tools
Help
Go
Land and Mineral Use Records Viewer
Home
Help
Contact
Latest News
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
pdf
search
select
place name
town ship
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Roosevelt National Forest
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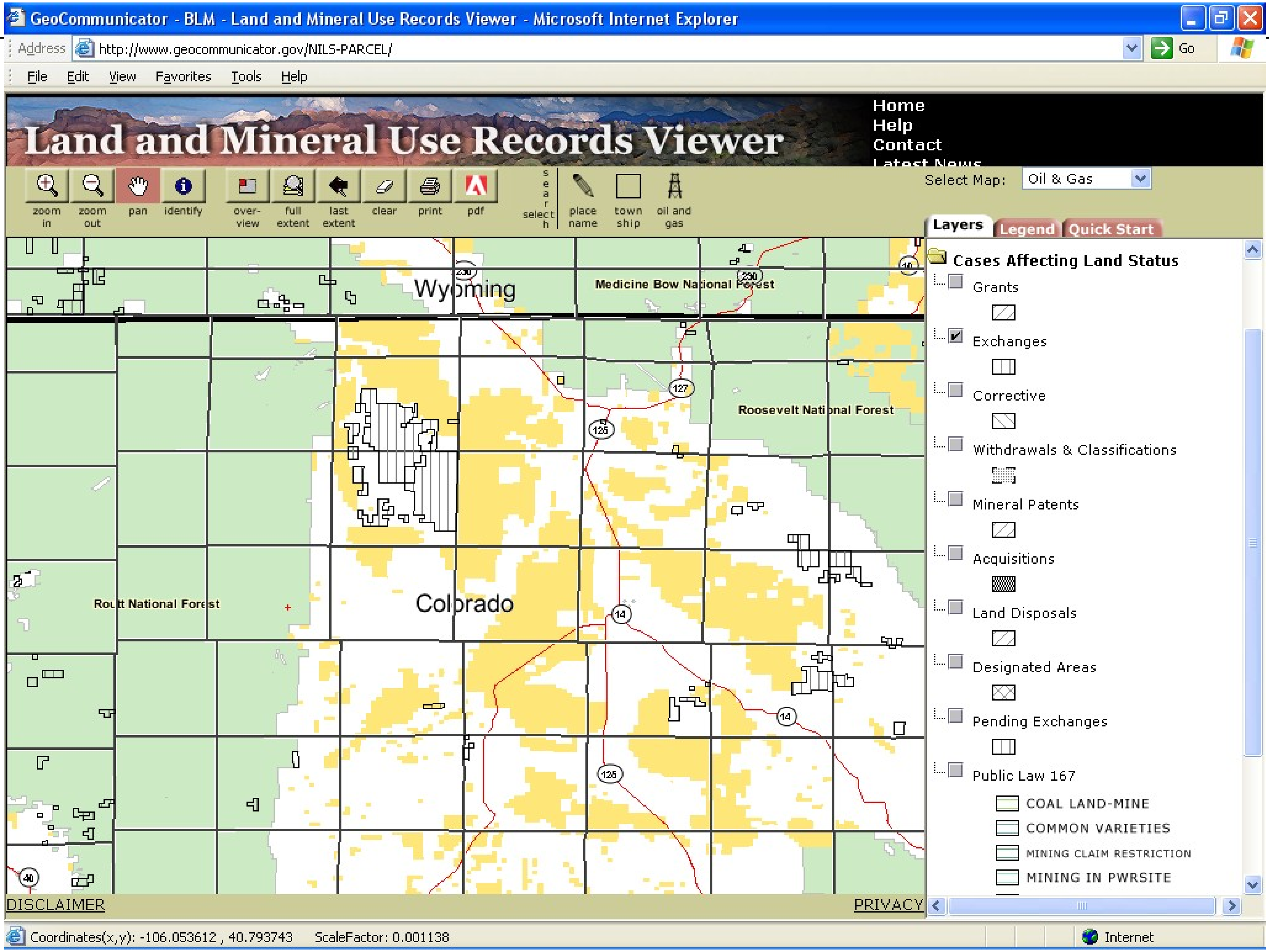
Exchanges


GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer
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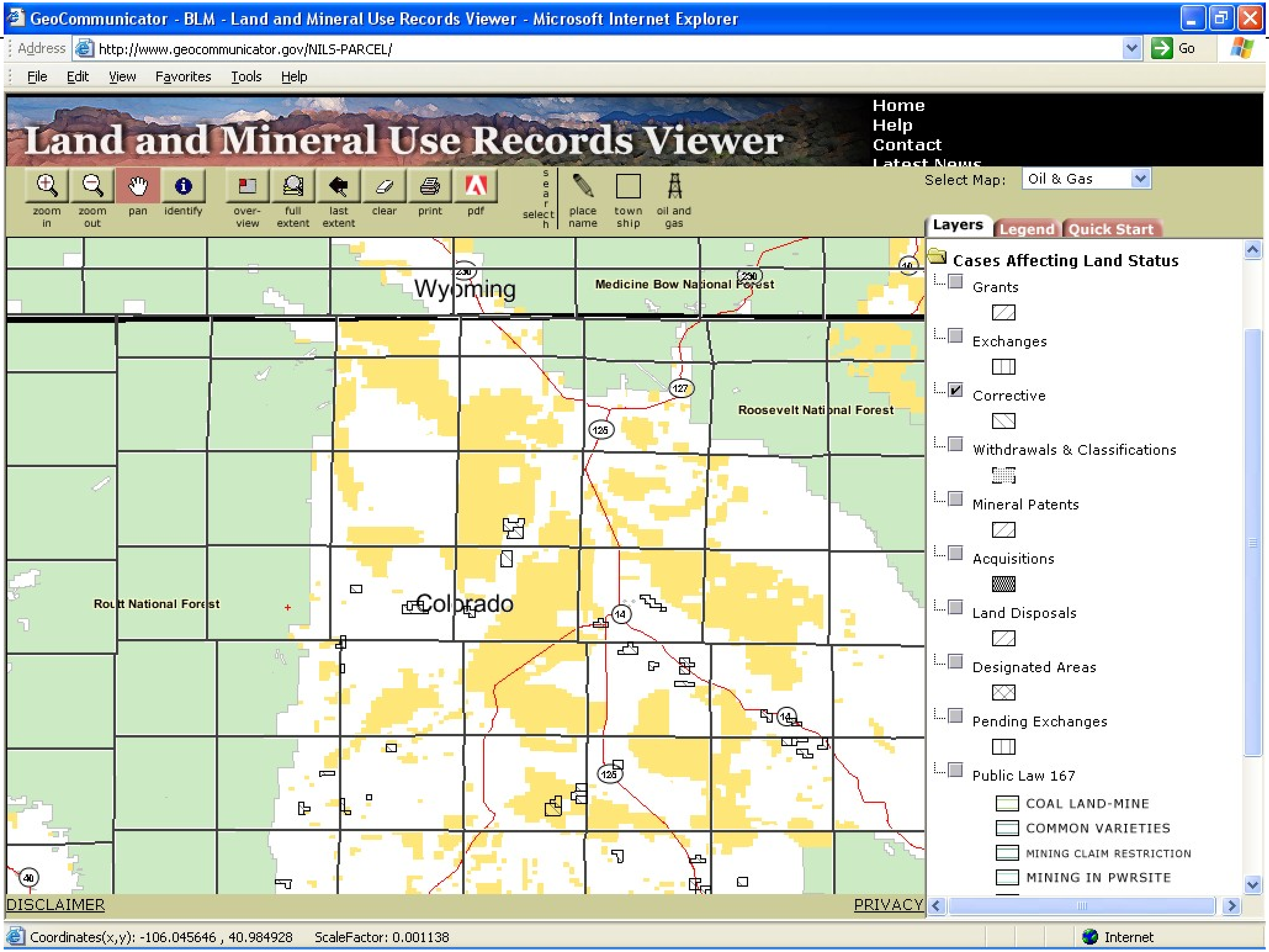
Select Map: Oil & Gas

Cases Affecting Land Status

- ☐ Grants
- ☑ Exchanges
- ☐ Corrective
- ☐ Withdrawals & Classifications
- ☐ Mineral Patents
- ☐ Acquisitions
- ☐ Land Disposals
- ☐ Designated Areas
- ☐ Pending Exchanges
- ☐ Public Law 167
  - COAL LAND-MINE
  - COMMON VARIETIES
  - MINING CLAIM RESTRICTION
  - MINING IN PWRSITE

Coordinates(x,y): -106.053612 , 40.793743 ScaleFactor: 0.001138

Corrective



GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer

Address http://www.geocommunicator.gov/NILS-PARCEL/

Select Map: Oil & Gas

Cases Affecting Land Status
- ☐ Grants
- ☐ Exchanges
- ☑ Corrective
- ☐ Withdrawals & Classifications
- ☐ Mineral Patents
- ☐ Acquisitions
- ☐ Land Disposals
- ☐ Designated Areas
- ☐ Pending Exchanges
- ☐ Public Law 167
  - COAL LAND-MINE
  - COMMON VARIETIES
  - MINING CLAIM RESTRICTION
  - MINING IN PWRSITE

Coordinates(x,y): -106.045646 , 40.984928 ScaleFactor: 0.001138

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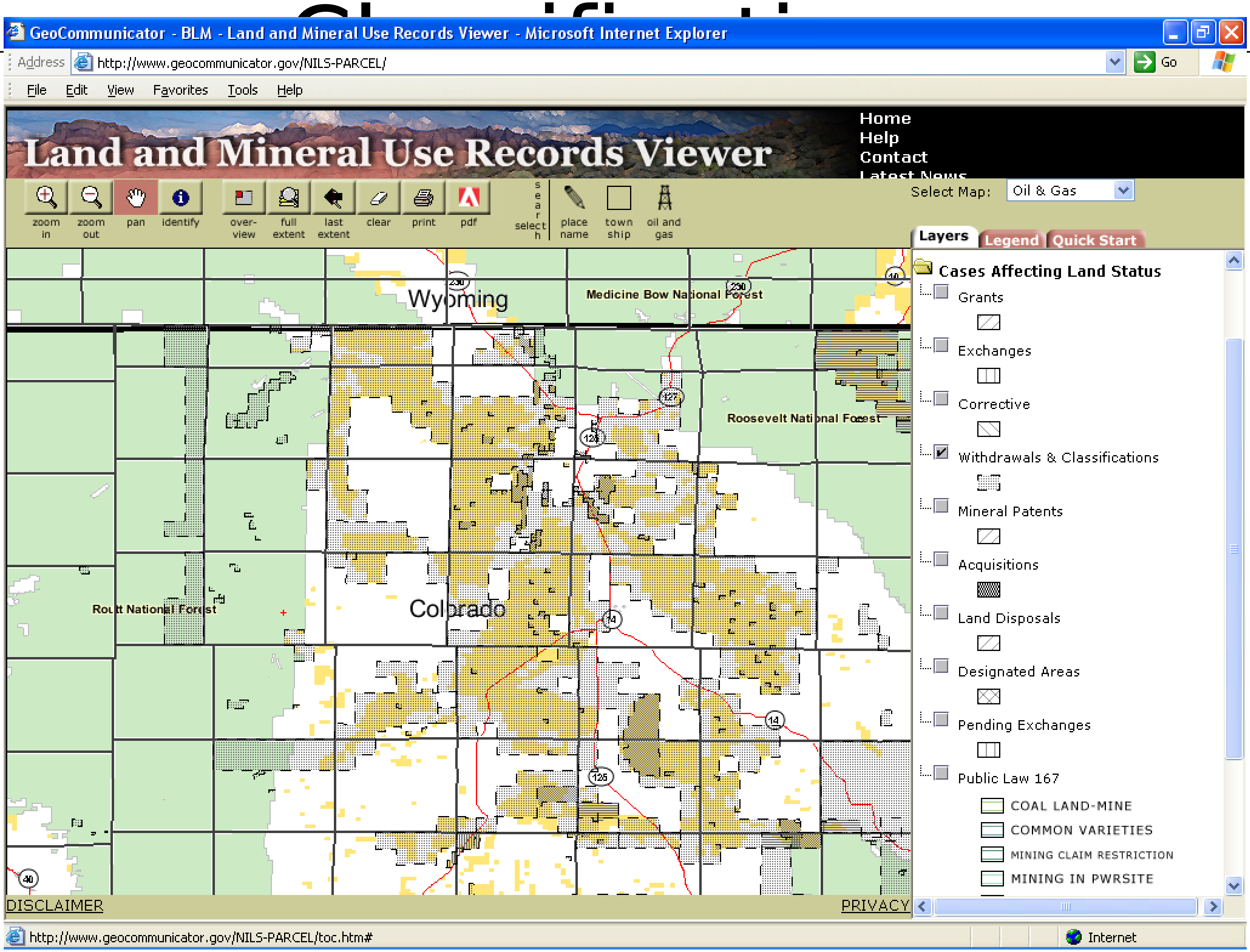
Withdrawals and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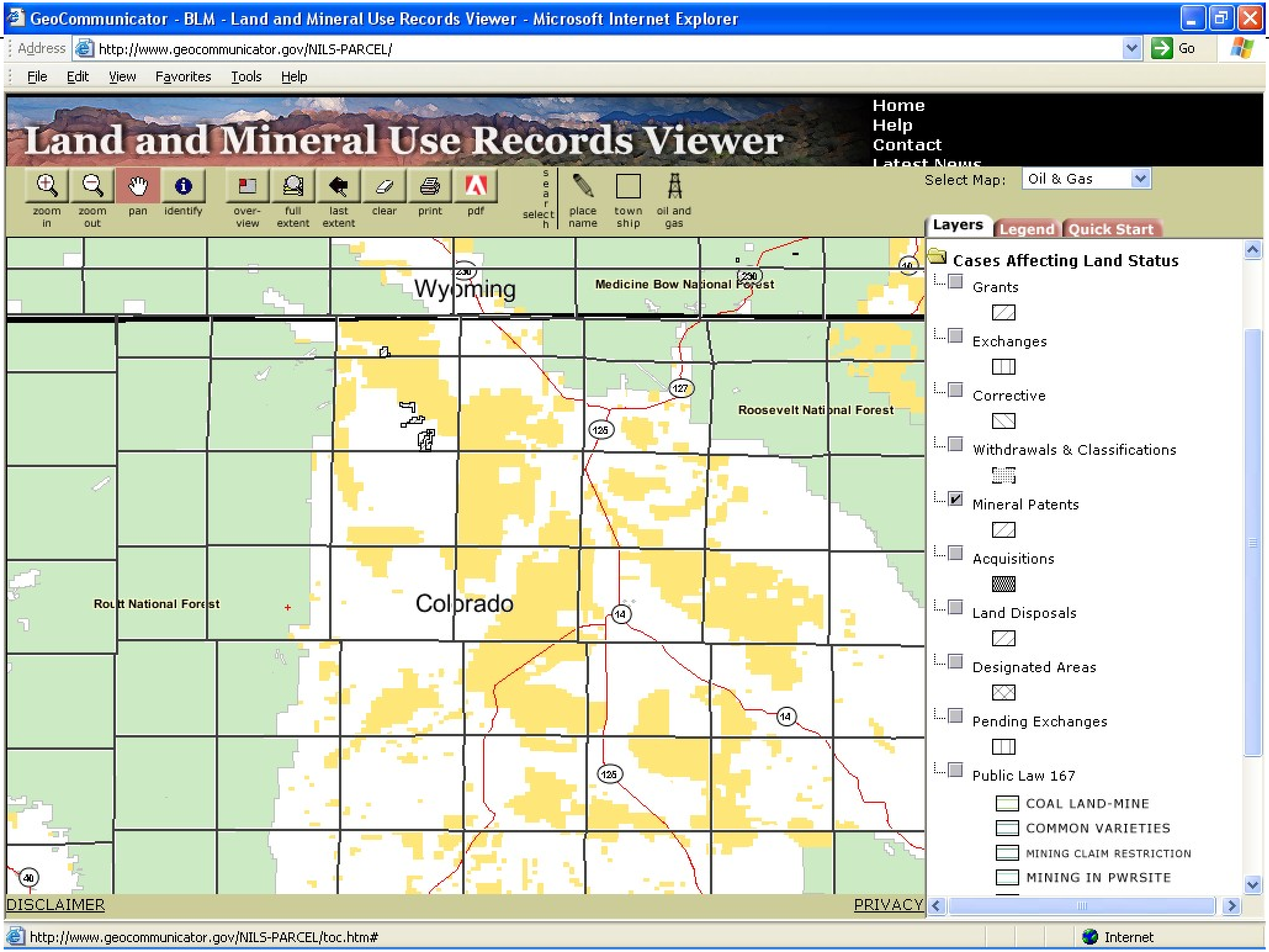
Internet

Select Map: Oil & Gas

Cases Affecting Land Status

- ☐ Grants ▨
- ☐ Exchanges
- ☐ Corrective
- ☑ Withdrawals & Classifications
- ☐ Mineral Patents ▨
- ☐ Acquisitions
- ☐ Land Disposals ▨
- ☐ Designated Areas
- ☐ Pending Exchanges
- ☐ Public Law 167
  - COAL LAND-MINE
  - COMMON VARIETIES
  - MINING CLAIM RESTRICTION
  - MINING IN PWRSITE

Mineral Patents



GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer

Address http://www.geocommunicator.gov/NILS-PARCEL/

Select Map: Oil & Gas

Cases Affecting Land Status
- ☐ Grants
- ☐ Exchanges
- ☐ Corrective
- ☐ Withdrawals & Classifications
- ☑ Mineral Patents
- ☐ Acquisitions
- ☐ Land Disposals
- ☐ Designated Areas
- ☐ Pending Exchanges
- ☐ Public Law 167
  - COAL LAND-MINE
  - COMMON VARIETIES
  - MINING CLAIM RESTRICTION
  - MINING IN PWRSITE

http://www.geocommunicator.gov/NILS-PARCEL/toc.htm#

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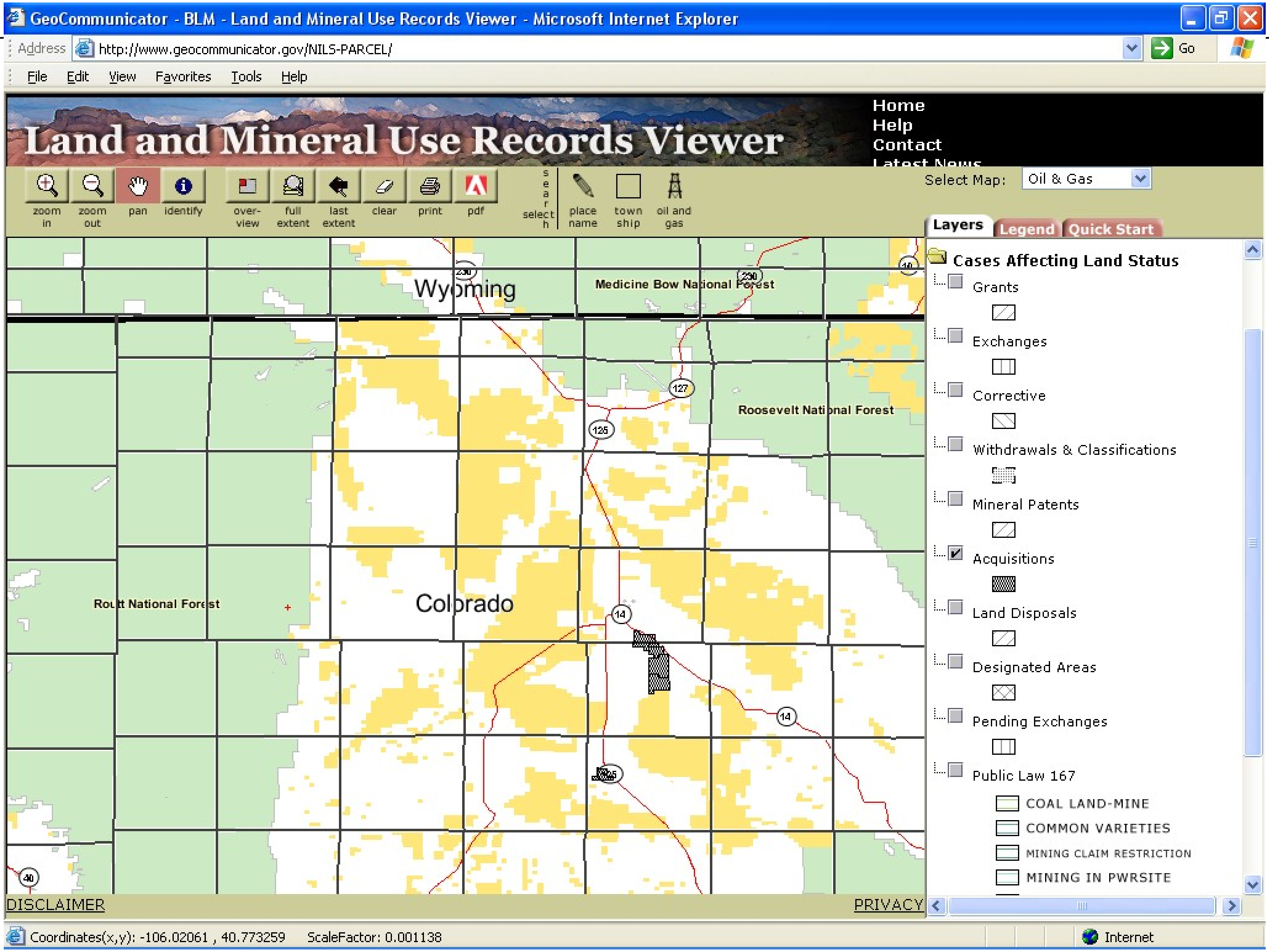
Acquisitions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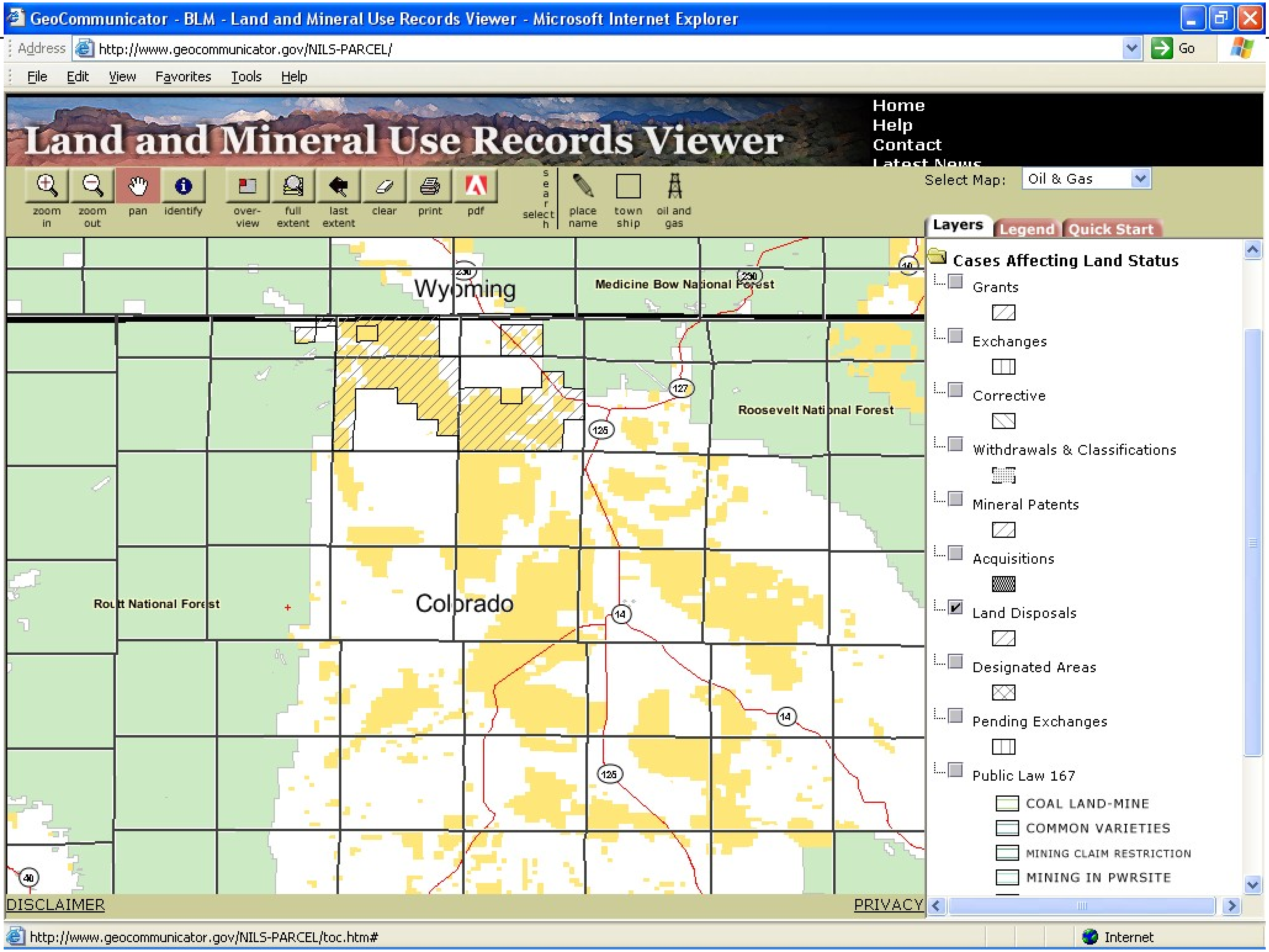
Address: http://www.geocommunicator.gov/NILS-PARCEL/

Select Map: Oil & Gas

Cases Affecting Land Status
- ☐ Grants
- ☐ Exchanges
- ☐ Corrective
- ☐ Withdrawals & Classifications
- ☐ Mineral Patents
- ☑ Acquisitions
- ☐ Land Disposals
- ☐ Designated Areas
- ☐ Pending Exchanges
- ☐ Public Law 167
  - COAL LAND-MINE
  - COMMON VARIETIES
  - MINING CLAIM RESTRICTION
  - MINING IN PWRSITE

Coordinates(x,y): -106.02061 , 40.773259 ScaleFactor: 0.001138

Land Disposals



GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer

Address http://www.geocommunicator.gov/NILS-PARCEL/

Select Map: Oil & Gas

☑ Land Disposals

http://www.geocommunicator.gov/NILS-PARCEL/toc.htm#

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Mineral Patents
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Public Law 167
COAL LAND-MINE
COMMON VARIETIES
MINING CLAIM RESTRICTION
MINING IN PWRSITE
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Roosevelt National Forest
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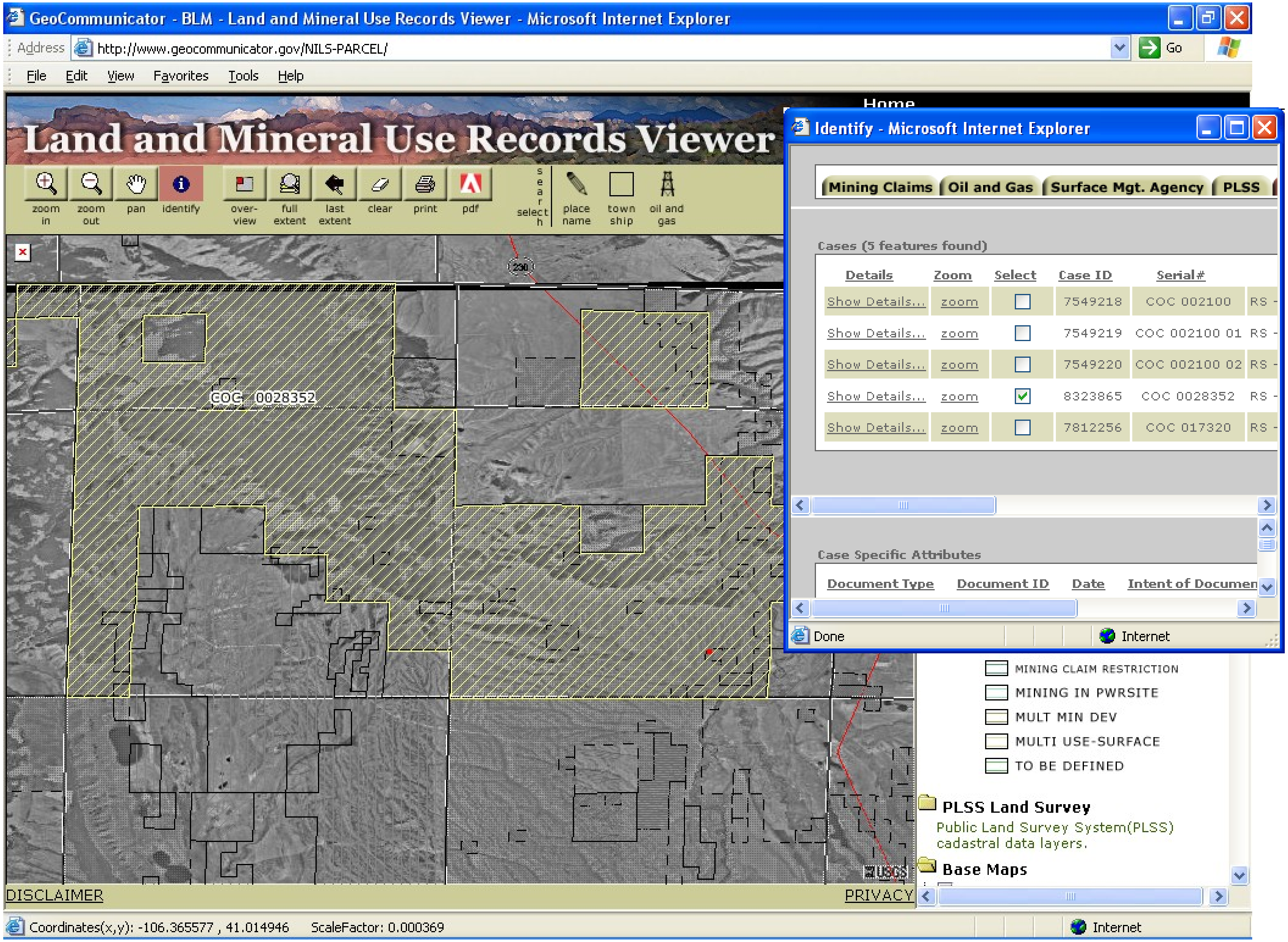
Identify Individual Cases…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TO BE DEFINED
PLSS Land Survey
Public Land Survey System(PLSS) cadastral data layers.
Base Maps
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Cases (5 features found)

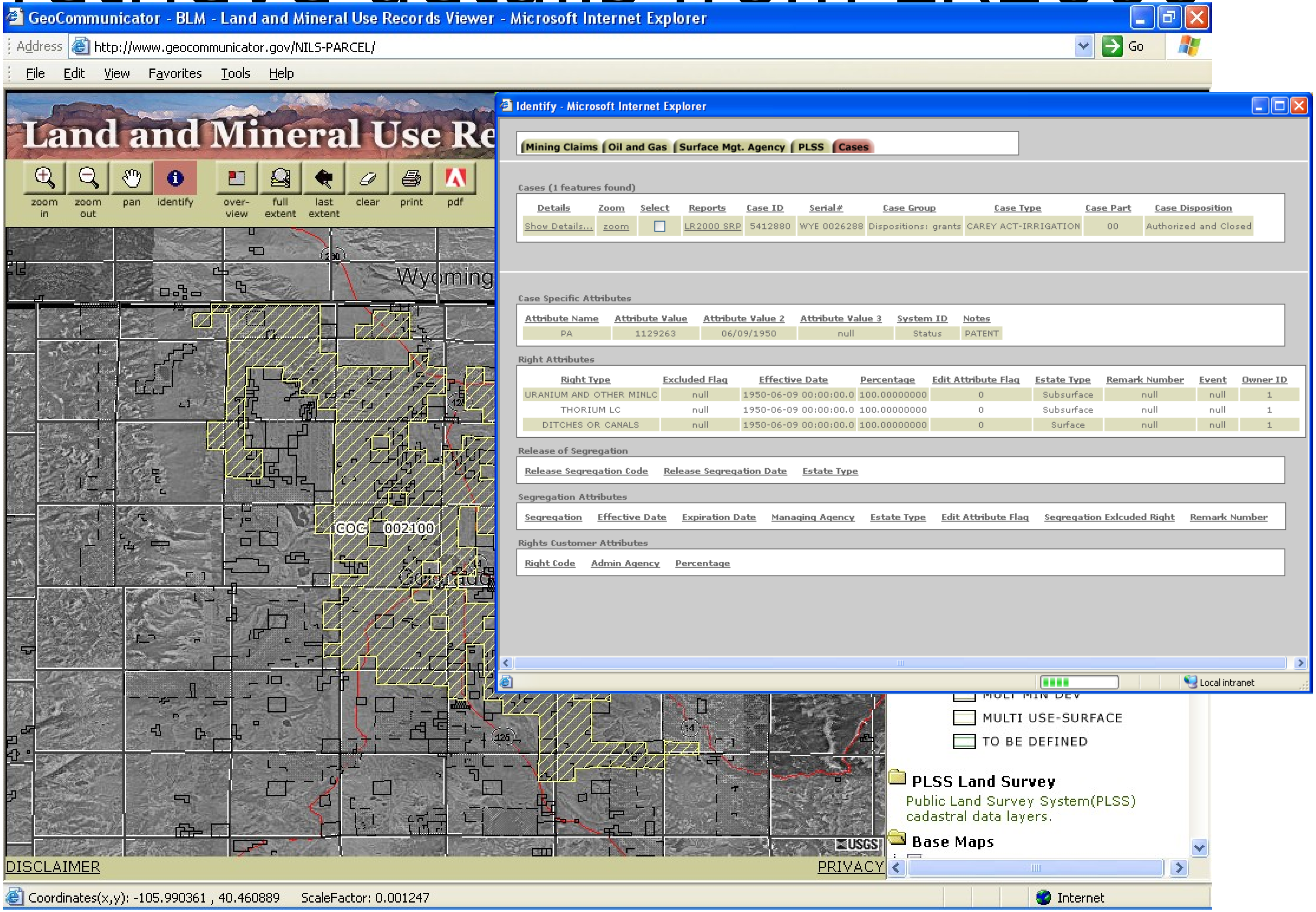
Details	Zoom	Select	Case ID	Serial #	
Show Details...	zoom	☐	7549218	COC 002100	RS -
Show Details...	zoom	☐	7549219	COC 002100 01	RS -
Show Details...	zoom	☐	7549220	COC 002100 02	RS -
Show Details...	zoom	☑	8323865	COC 0028352	RS -
Show Details...	zoom	☐	7812256	COC 017320	RS -

Case Specific Attributes

Document Type	Document ID	Date	Intent of Documen

Coordinates(x,y): -106.365577 , 41.014946 ScaleFactor: 0.000369

..zoom to entire case and retrieve details from LR2000


GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer
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Base Maps
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Identify - Microsoft Internet Explorer
Mining Claims
Oil and Gas
Surface Mgt. Agency
PLSS
Cases
Local intranet

Coordinates(x,y): -105.990361 , 40.460889 ScaleFactor: 0.001247

Cases (1 features found)

Details	Zoom	Select	Reports	Case ID	Serial#	Case Group	Case Type	Case Part	Case Disposition
Show Details...	zoom	☐	LR2000 SRP	5412880	WYE 0026288	Dispositions: grants	CAREY ACT-IRRIGATION	00	Authorized and Closed

Case Specific Attributes

Attribute Name	Attribute Value	Attribute Value 2	Attribute Value 3	System ID	Notes
PA	1129263	06/09/1950	null	Status	PATENT

Right Attributes

Right Type	Excluded Flag	Effective Date	Percentage	Edit Attribute Flag	Estate Type	Remark Number	Event	Owner ID
URANIUM AND OTHER MINLC	null	1950-06-09 00:00:00.0	100.00000000	0	Subsurface	null	null	1
THORIUM LC	null	1950-06-09 00:00:00.0	100.00000000	0	Subsurface	null	null	1
DITCHES OR CANALS	null	1950-06-09 00:00:00.0	100.00000000	0	Surface	null	null	1

Release of Segregation

Release Segregation Code	Release Segregation Date	Estate Type

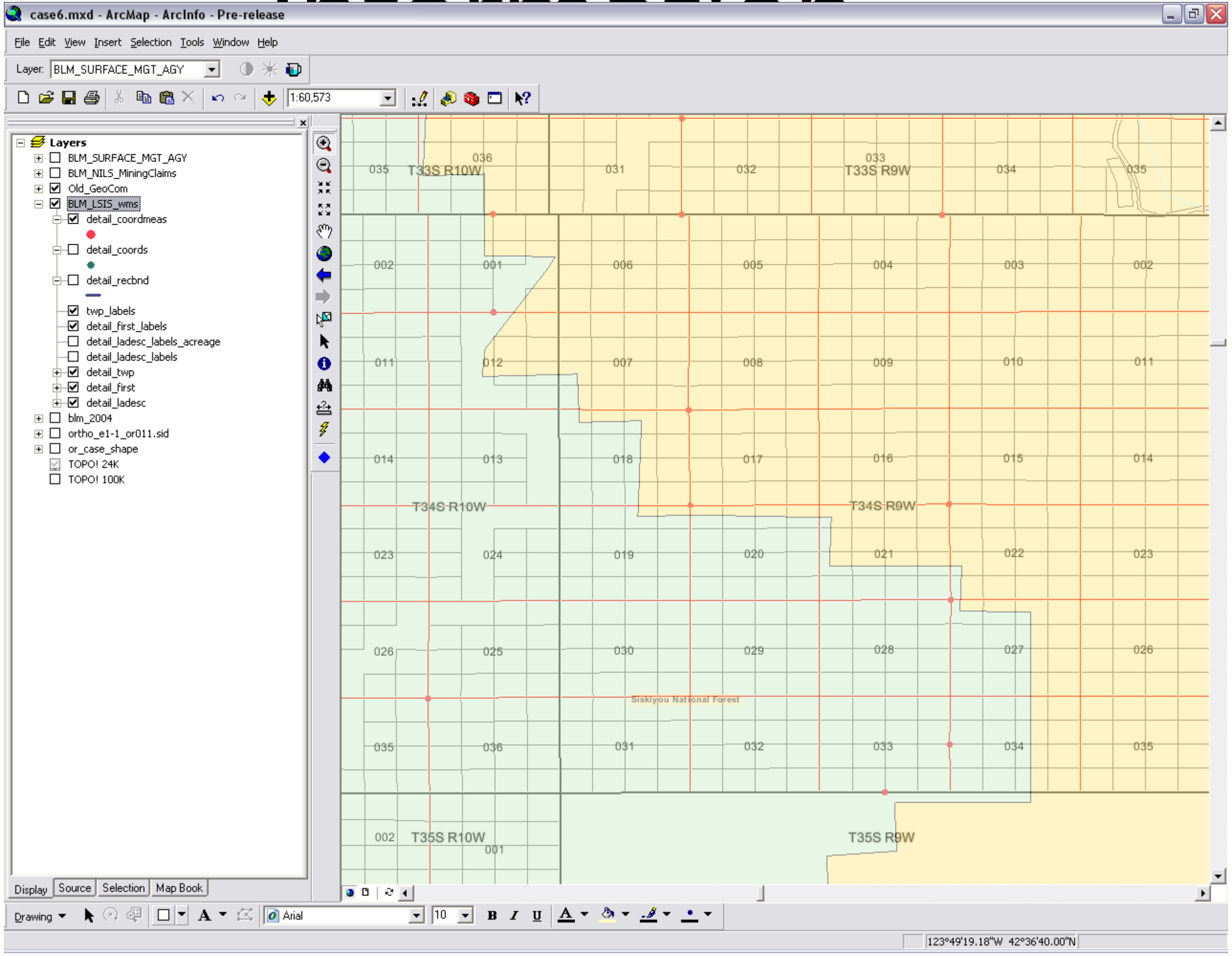
Segregation Attributes

Segregation	Effective Date	Expiration Date	Managing Agency	Estate Type	Edit Attribute Flag	Segregation Exlcuded Right	Remark Number

Rights Customer Attributes

Right Code	Admin Agency	Percentage

Improve positional accuracy by aligning with Land Survey Information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T33S R9W
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Siskiyou National Forest
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011 012 007 008 009 010 011
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023 024 019 020 021 022 023
026 025 030 029 028 027 026
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Layer: BLM_SURFACE_MGT_AGY

1:60,573

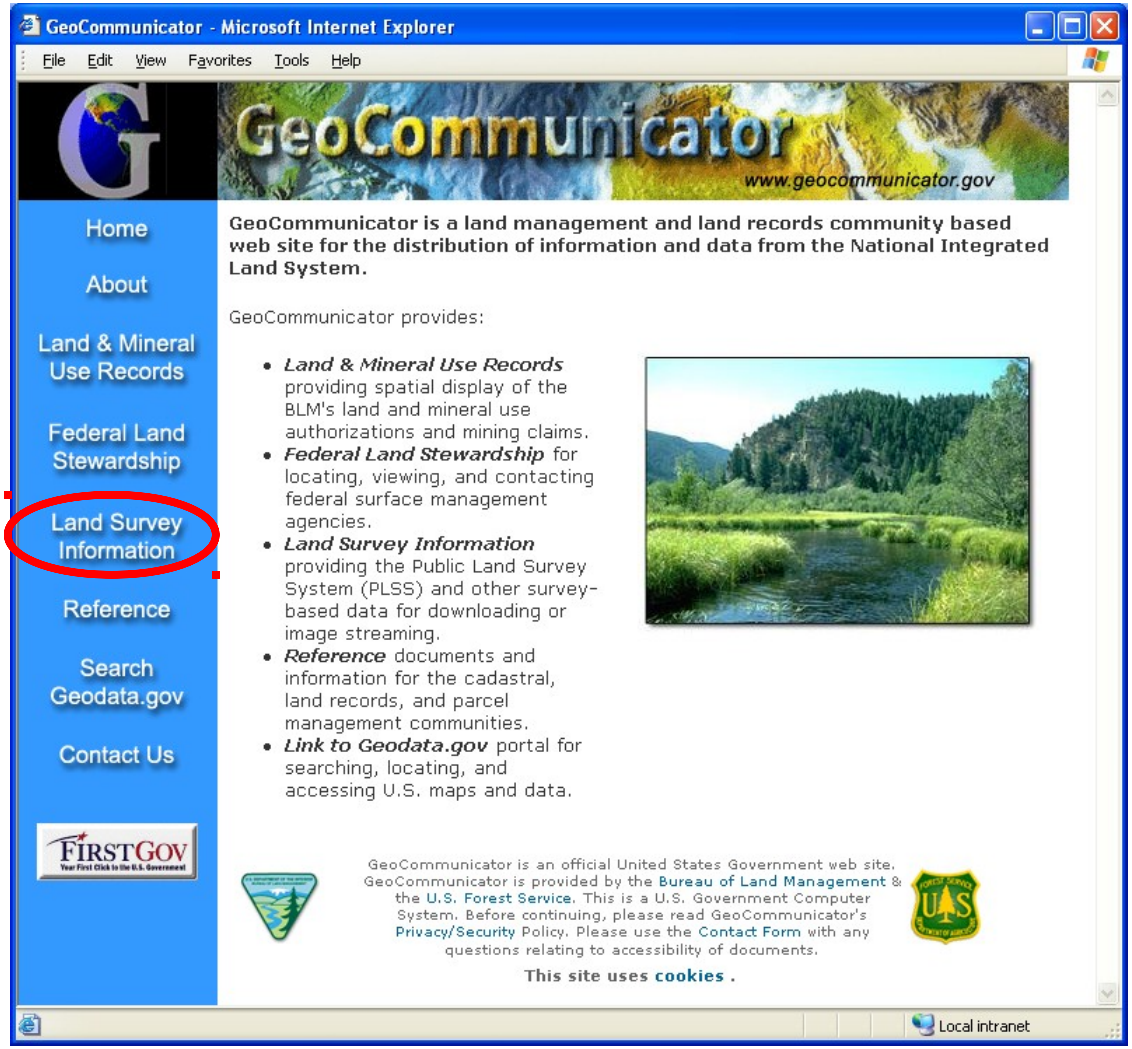
Layers
- ☐ BLM_SURFACE_MGT_AGY
- ☐ BLM_NILS_MiningClaims
- ☑ Old_GeoCom
- ☑ BLM_LSIS_wms
  - ☑ detail_coordmeas
  - ☐ detail_coords
  - ☐ detail_recbnd
  - ☑ twp_labels
  - ☑ detail_first_labels
  - ☐ detail_ladesc_labels_acreage
  - ☐ detail_ladesc_labels
  - ☑ detail_twp
  - ☑ detail_first
  - ☑ detail_ladesc
- ☐ blm_2004
- ☐ ortho_e1-1_or011.sid
- ☐ or_case_shape
- ☑ TOPO! 24K
- ☐ TOPO! 100K

123°49'19.18"W 42°36'40.00"N

GeoCommunicator: The Portal to NILS Spatial Data

- GeoCommunicator Statistics
  - GeoCommunicator: 10,665/month (deployed June 2001)
  - Land & Mineral Use Records: 761/month (deployed August 2004)
  - Federal Land Stewardship: 391 (deployed August 2004)
  - LSIS: 26,650/month (Deployed May 2002)
  - Press Release issued in March announcing new sites and release of Cases that Affect Land Status
  - ROW to be released in August as part of R3

Land Survey Information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GeoCommunicator is a land management and land records community based web site for the distribution of information and data from the National Integrated Land System.

GeoCommunicator provides:

- ***Land & Mineral Use Records*** providing spatial display of the BLM's land and mineral use authorizations and mining claims.
- ***Federal Land Stewardship*** for locating, viewing, and contacting federal surface management agencies.
- ***Land Survey Information*** providing the Public Land Survey System (PLSS) and other survey-based data for downloading or image streaming.
- ***Reference*** documents and information for the cadastral, land records, and parcel management communities.
- ***Link to Geodata.gov*** portal for searching, locating, and accessing U.S. maps and data.

GeoCommunicator is an official United States Government web site. GeoCommunicator is provided by the Bureau of Land Management & the U.S. Forest Service. This is a U.S. Government Computer System. Before continuing, please read GeoCommunicator's Privacy/Security Policy. Please use the Contact Form with any questions relating to accessibility of documents.

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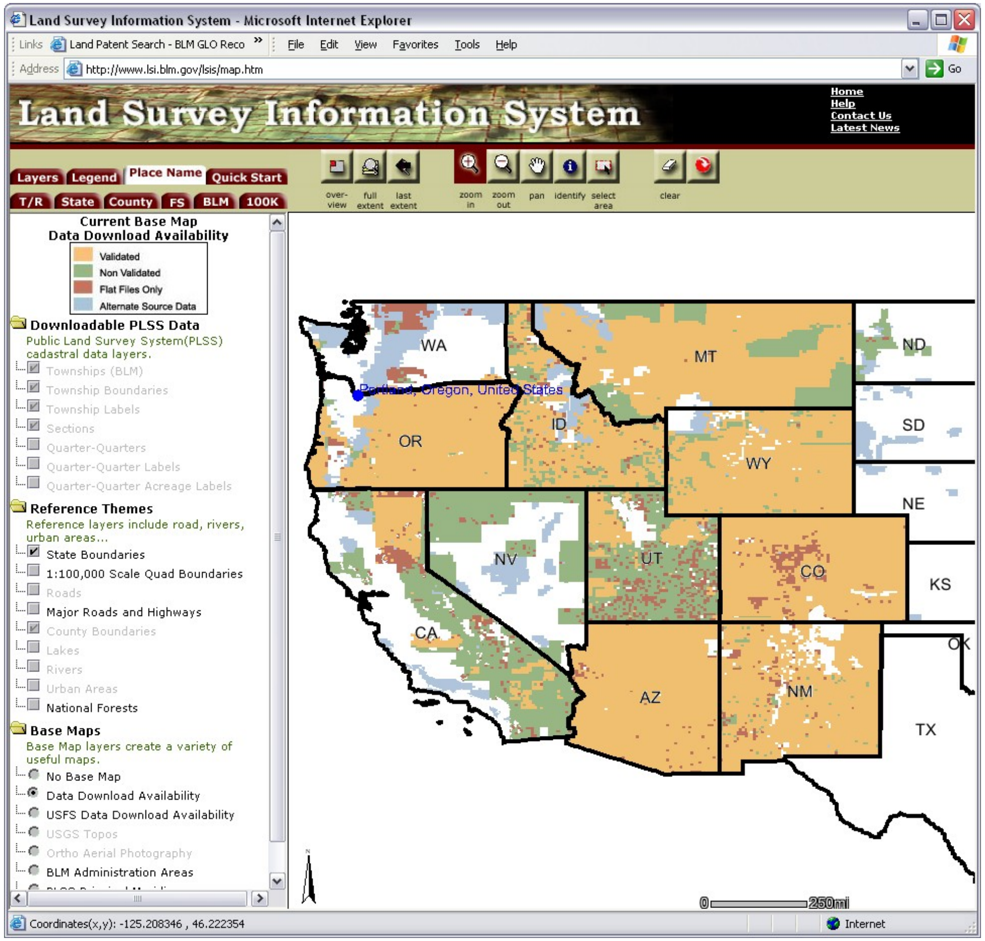
A Seamless Multi-Purpose Cadastre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Land Patent Search - BLM GLO Reco
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http://www.lsi.blm.gov/lsis/map.htm

Current Base Map
Data Download Availability

🟧	Validated
🟩	Non Validated
🟥	Flat Files Only
🟦	Alternate Source Data

Downloadable PLSS Data
Public Land Survey System(PLSS) cadastral data layers.
- ☑ Townships (BLM)
- ☑ Township Boundaries
- ☑ Township Labels
- ☑ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

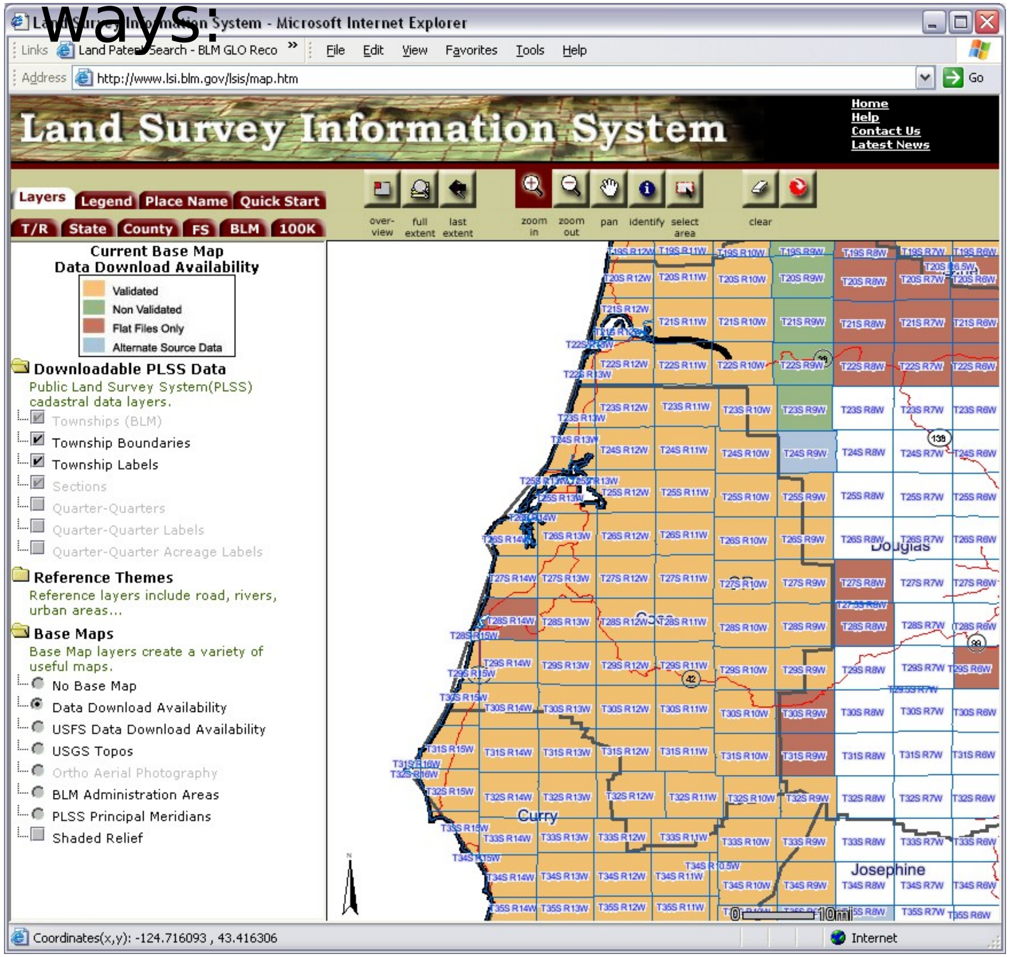
Reference Themes
Reference layers include road, rivers, urban areas...
- ☑ State Boundaries
- ☐ 1:100,000 Scale Quad Boundaries
- ☐ Roads
- ☐ Major Roads and Highways
- ☑ County Boundaries
- ☐ Lakes
- ☐ Rivers
- ☐ Urban Areas
- ☐ National Forests

Base Maps
Base Map layers create a variety of useful maps.
- ○ No Base Map
- ● Data Download Availability
- ○ USFS Data Download Availability
- ○ USGS Topos
- ○ Ortho Aerial Photography
- ○ BLM Administration Areas

Coordinates(x,y): -125.208346 , 46.222354

Land Survey Information

Data are delivered in several ways: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http://www.lsi.blm.gov/lsis/map.htm

Current Base Map Data Download Availability

🟧	Validated
🟩	Non Validated
🟥	Flat Files Only
🟦	Alternate Source Data

Downloadable PLSS Data

Public Land Survey System(PLSS) cadastral data layers.

- ☑ Townships (BLM)
- ☑ Township Boundaries
- ☑ Township Labels
- ☑ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

Reference layers include road, rivers, urban areas...

Base Maps

Base Map layers create a variety of useful maps.

- ○ No Base Map
- ● Data Download Availability
- ○ USFS Data Download Availability
- ○ USGS Topos
- ○ Ortho Aerial Photography
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☐ Shaded Relief

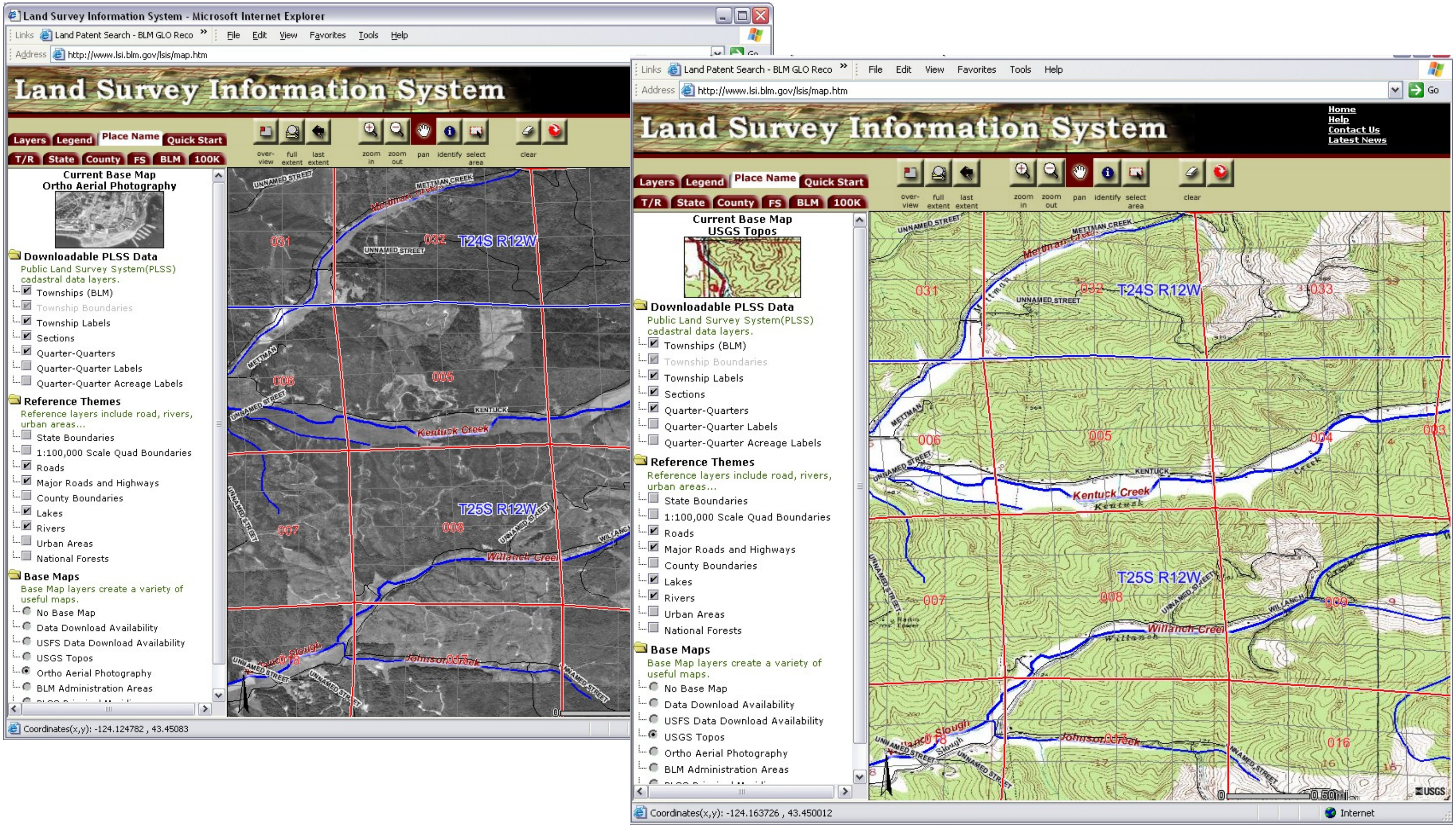
Coordinates(x,y): -124.716093 , 43.416306

Public Land Survey System:

- Township
- Range
- Section
- Aliquot

Land Survey Information

Data are viewable from the web interface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Willanch Creek
Johnson Creek
Slough
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USGS
Internet

Address: http://www.lsi.blm.gov/lsis/map.htm

Current Base Map
Ortho Aerial Photography

Downloadable PLSS Data
Public Land Survey System(PLSS) cadastral data layers.
- ☑ Townships (BLM)
- ☑ Township Boundaries
- ☑ Township Labels
- ☑ Sections
- ☑ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes
Reference layers include road, rivers, urban areas...
- ☐ State Boundaries
- ☐ 1:100,000 Scale Quad Boundaries
- ☑ Roads
- ☑ Major Roads and Highways
- ☐ County Boundaries
- ☑ Lakes
- ☑ Rivers
- ☐ Urban Areas
- ☐ National Forests

Base Maps
Base Map layers create a variety of useful maps.
- ○ No Base Map
- ○ Data Download Availability
- ○ USFS Data Download Availability
- ○ USGS Topos
- ● Ortho Aerial Photography
- ○ BLM Administration Areas

Coordinates(x,y): -124.124782 , 43.45083

Address: http://www.lsi.blm.gov/lsis/map.htm

Current Base Map
USGS Topos

Downloadable PLSS Data
Public Land Survey System(PLSS) cadastral data layers.
- ☑ Townships (BLM)
- ☑ Township Boundaries
- ☑ Township Labels
- ☑ Sections
- ☑ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

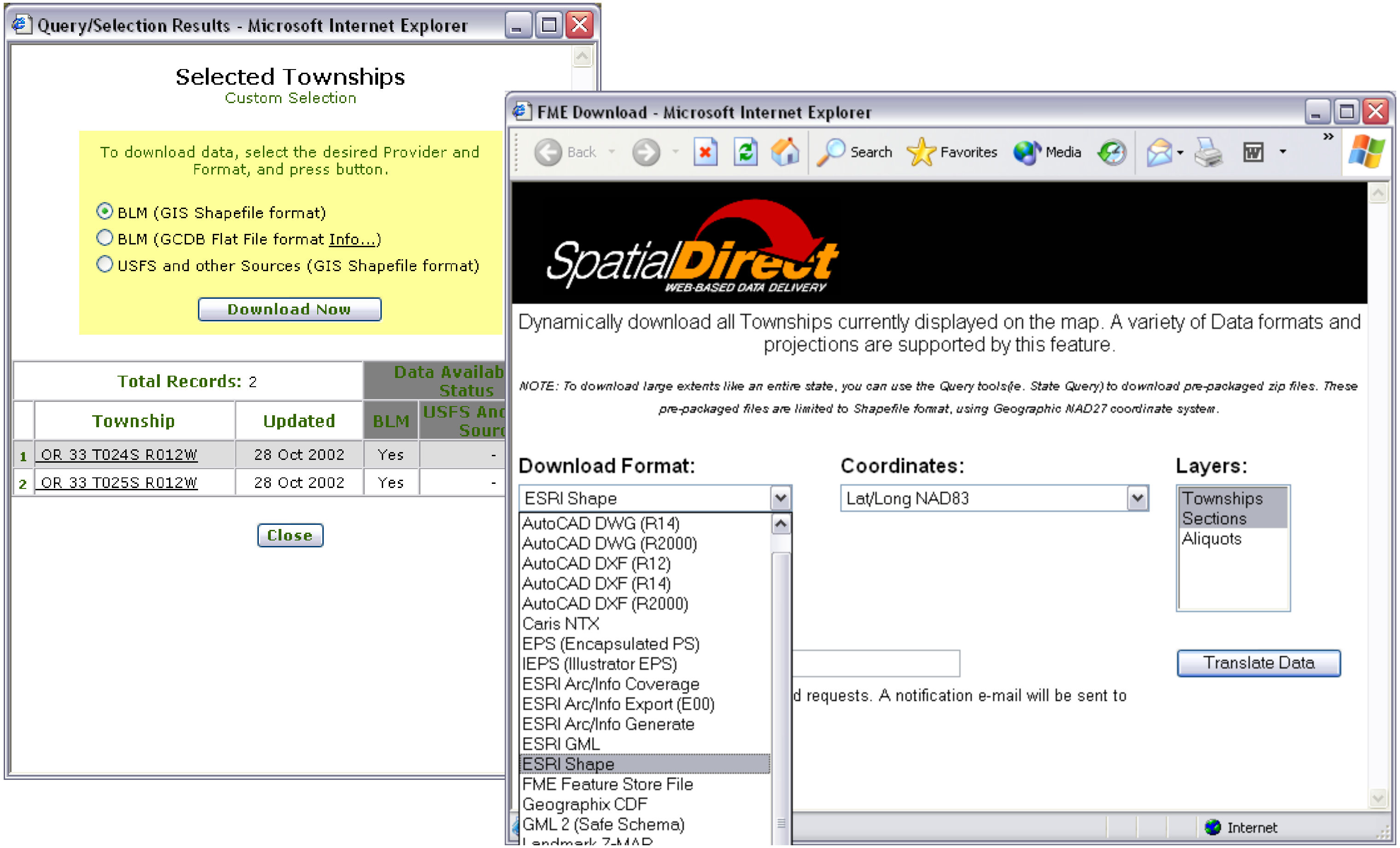
Reference Themes
Reference layers include road, rivers, urban areas...
- ☐ State Boundaries
- ☐ 1:100,000 Scale Quad Boundaries
- ☑ Roads
- ☑ Major Roads and Highways
- ☐ County Boundaries
- ☑ Lakes
- ☑ Rivers
- ☐ Urban Areas
- ☐ National Forests

Base Maps
Base Map layers create a variety of useful maps.
- ○ No Base Map
- ○ Data Download Availability
- ○ USFS Data Download Availability
- ● USGS Topos
- ○ Ortho Aerial Photography
- ○ BLM Administration Areas

Coordinates(x,y): -124.163726 , 43.450012

Land Survey Information

Data are delivered as downloadable shape files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● BLM (GIS Shapefile format)
○ BLM (GCDB Flat File format Info...)
○ USFS and other Sources (GIS Shapefile format)

Total Records: 2		Data Availab Status	
Township	**Updated**	**BLM**	**USFS And Sourc**
1 OR 33 T024S R012W	28 Oct 2002	Yes	-
2 OR 33 T025S R012W	28 Oct 2002	Yes	-

Dynamically download all Townships currently displayed on the map. A variety of Data formats and projections are supported by this feature.

NOTE: To download large extents like an entire state, you can use the Query tools(ie. State Query) to download pre-packaged zip files. These pre-packaged files are limited to Shapefile format, using Geographic NAD27 coordinate system.

Download Format: ESRI Shape

- AutoCAD DWG (R14)
- AutoCAD DWG (R2000)
- AutoCAD DXF (R12)
- AutoCAD DXF (R14)
- AutoCAD DXF (R2000)
- Caris NTX
- EPS (Encapsulated PS)
- IEPS (Illustrator EPS)
- ESRI Arc/Info Coverage
- ESRI Arc/Info Export (E00)
- ESRI Arc/Info Generate
- ESRI GML
- ESRI Shape
- FME Feature Store File
- Geographix CDF
- GML 2 (Safe Schema)

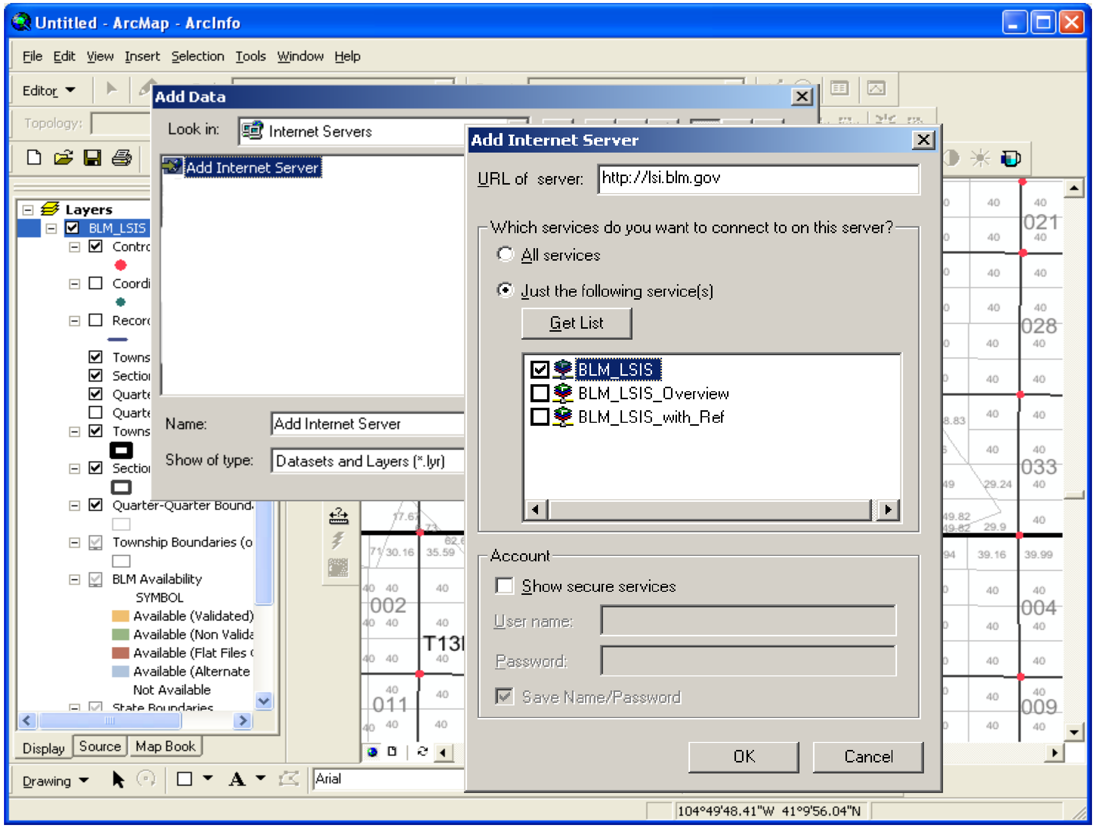
Coordinates: Lat/Long NAD83

Layers:
- Townships
- Sections
- Aliquots

d requests. A notification e-mail will be sent to

Land Survey Information

Data are delivered as map streaming ArcIMS layer



Untitled - ArcMap - ArcInfo
File Edit View Insert Selection Tools Window Help
Editor
Topology:
Layers
BLM_LSIS
Towns
Quarter-Quarter Bound
Township Boundaries (o
BLM Availability
SYMBOL
Available (Validated)
Available (Non Valid
Available (Flat Files
Available (Alternate
Not Available
State Boundaries
Display Source Map Book
Drawing
Arial
002
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T13N
021
028
033
004
009
Add Data
Look in: Internet Servers
Add Internet Server
Name: Add Internet Server
Show of type: Datasets and Layers (*.lyr)
Add Internet Server

URL of server: http://lsi.blm.gov

Which services do you want to connect to on this server?

○ All services

● Just the following service(s)

Get List

☑ BLM_LSIS
☐ BLM_LSIS_Overview
☐ BLM_LSIS_with_Ref

Account

☐ Show secure services

User name:

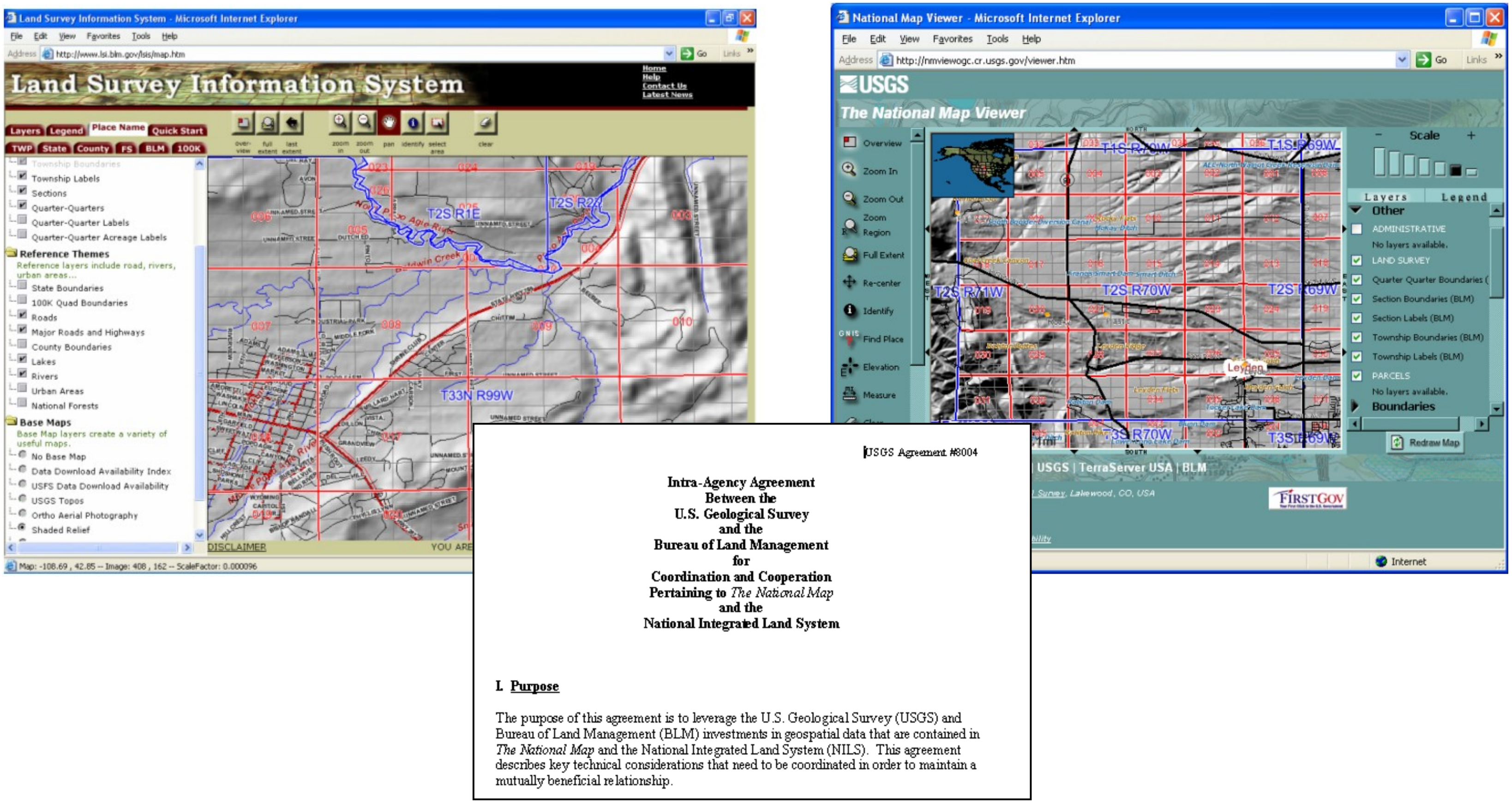
Password:

☑ Save Name/Password

OK
Cancel
104°49'48.41"W 41°9'56.04"N

Part of the National Map

BLM & USGS sharing data resources


Land Survey Information System - Microsoft Internet Explorer
http://www.lsi.blm.gov/lsis/map.htm
Land Survey Information System
Home
Help
Contact Us
Latest News
Layers
Legend
Place Name
Quick Start
TWP
State
County
FS
BLM
100K
Township Labels
Sections
Quarter-Quarters
Quarter-Quarter Labels
Quarter-Quarter Acreage Labels
Reference Themes
State Boundaries
100K Quad Boundaries
Roads
Major Roads and Highways
County Boundaries
Lakes
Rivers
Urban Areas
National Forests
Base Maps
No Base Map
Data Download Availability Index
USFS Data Download Availability
USGS Topos
Ortho Aerial Photography
Shaded Relief
T2S R1E
T33N R99W
DISCLAIMER
National Map Viewer - Microsoft Internet Explorer
http://nmviewogc.cr.usgs.gov/viewer.htm
USGS
The National Map Viewer
Overview
Zoom In
Zoom Out
Zoom Region
Full Extent
Re-center
Identify
Find Place
Elevation
Measure
Scale
Layers
Legend
Other
ADMINISTRATIVE
LAND SURVEY
Quarter Quarter Boundaries
Section Boundaries (BLM)
Section Labels (BLM)
Township Boundaries (BLM)
Township Labels (BLM)
PARCELS
Boundaries
Redraw Map
T1S R69W
T2S R71W
T2S R70W
T2S R69W
T3S R70W
T3S R69W
USGS | TerraServer USA | BLM
FIRSTGOV
Internet

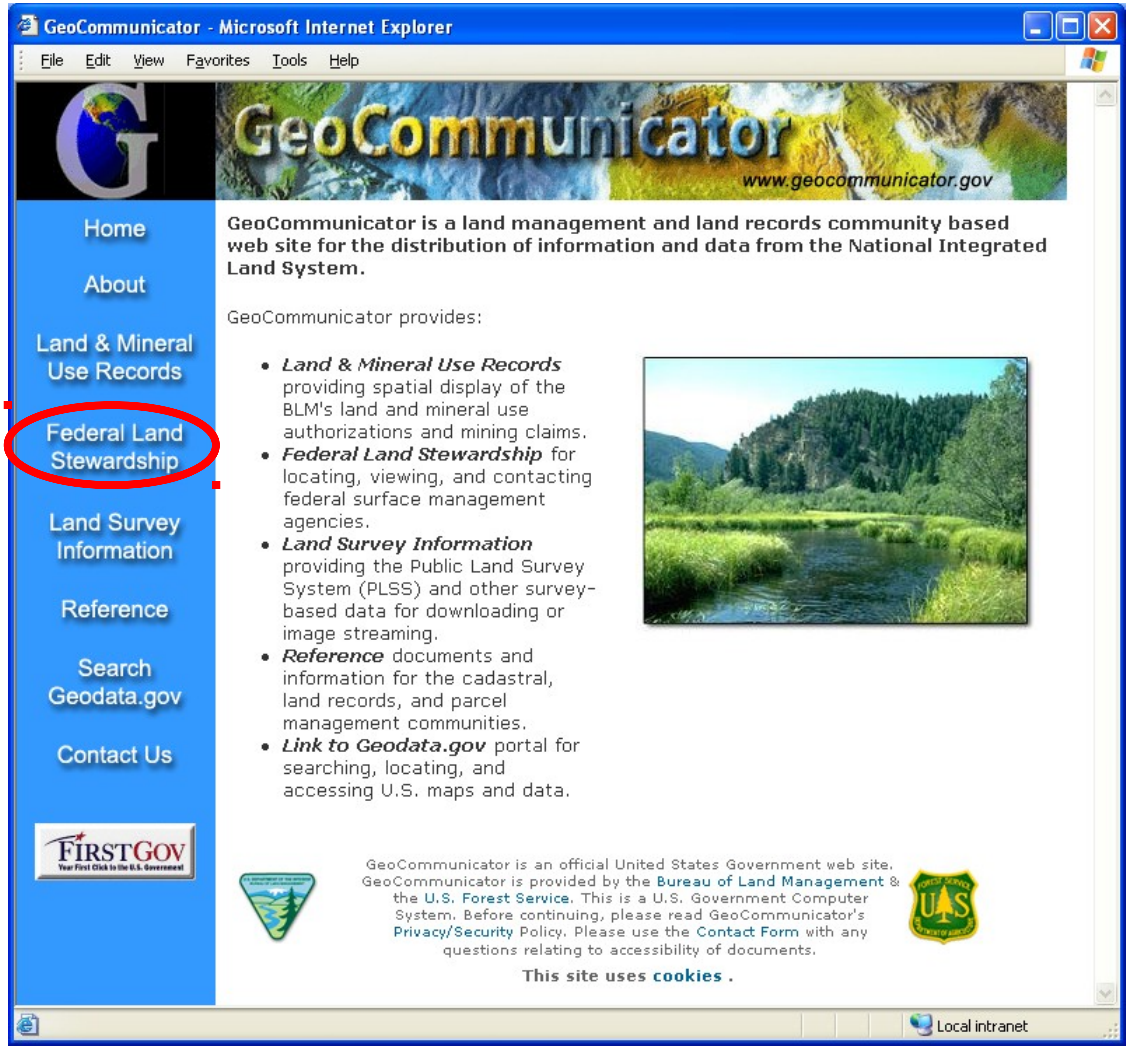
USGS Agreement #8004

Intra-Agency Agreement
Between the
U.S. Geological Survey
and the
Bureau of Land Management
for
Coordination and Cooperation
Pertaining to *The National Map*
and the
National Integrated Land System

I. Purpose

The purpose of this agreement is to leverage the U.S. Geological Survey (USGS) and Bureau of Land Management (BLM) investments in geospatial data that are contained in *The National Map* and the National Integrated Land System (NILS). This agreement describes key technical considerations that need to be coordinated in order to maintain a mutually beneficial relationship.

Federal Land Stewardship


GeoCommunicator - Microsoft Internet Explorer
File Edit View Favorites Tools Help
GeoCommunicator
www.geocommunicator.gov
Home
About
Land & Mineral Use Records
Federal Land Stewardship
Land Survey Information
Reference
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FIRSTGOV
Local intranet

GeoCommunicator is a land management and land records community based web site for the distribution of information and data from the National Integrated Land System.

GeoCommunicator provides:

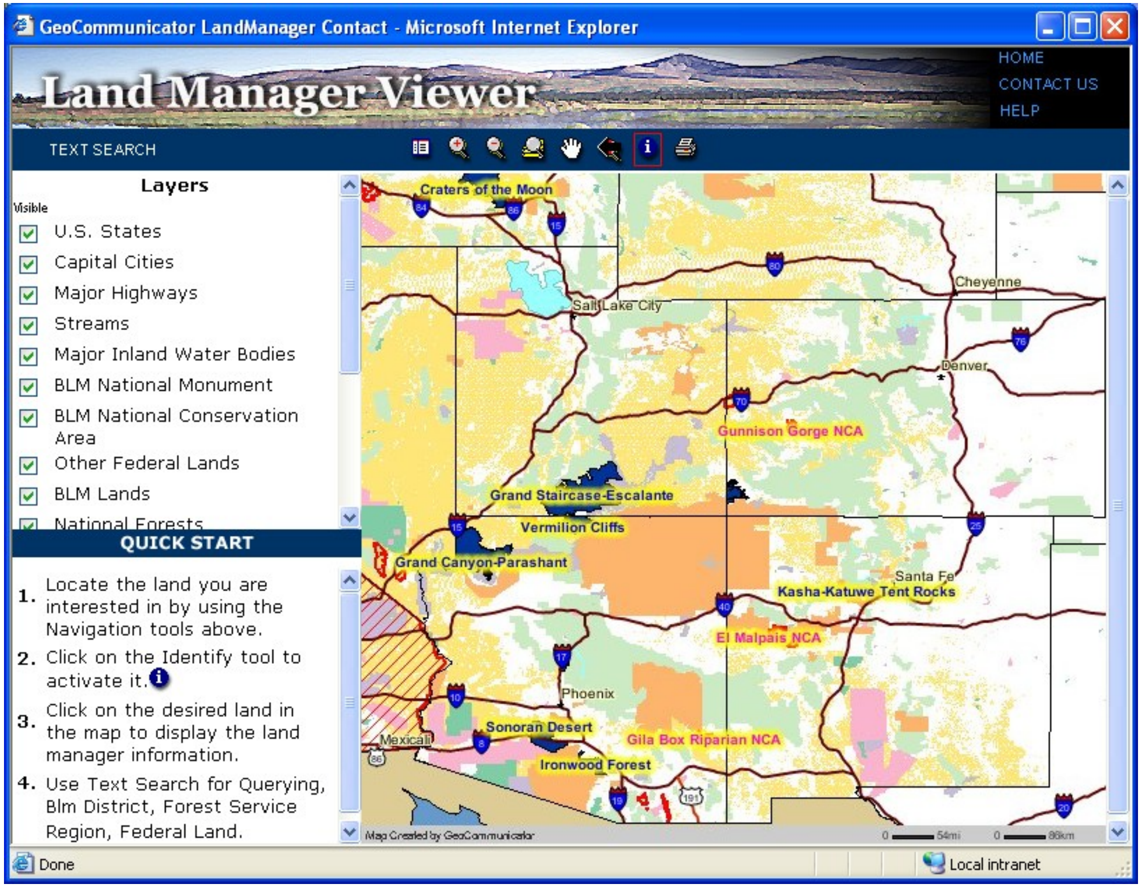
- ***Land & Mineral Use Records*** providing spatial display of the BLM's land and mineral use authorizations and mining claims.
- ***Federal Land Stewardship*** for locating, viewing, and contacting federal surface management agencies.
- ***Land Survey Information*** providing the Public Land Survey System (PLSS) and other survey-based data for downloading or image streaming.
- ***Reference*** documents and information for the cadastral, land records, and parcel management communities.
- ***Link to Geodata.gov*** portal for searching, locating, and accessing U.S. maps and data.

GeoCommunicator is an official United States Government web site. GeoCommunicator is provided by the Bureau of Land Management & the U.S. Forest Service. This is a U.S. Government Computer System. Before continuing, please read GeoCommunicator's Privacy/Security Policy. Please use the Contact Form with any questions relating to accessibility of documents.

This site uses cookies .

Land Manager Viewer

Displays Federal Surface Management Agency


GeoCommunicator LandManager Contact - Microsoft Internet Explorer
Land Manager Viewer
HOME
CONTACT US
HELP
TEXT SEARCH
Craters of the Moon
Cheyenne
Salt Lake City
Denver
Gunnison Gorge NCA
Grand Staircase-Escalante
Vermilion Cliffs
Grand Canyon-Parashant
Santa Fe
Kasha-Katuwe Tent Rocks
El Malpais NCA
Phoenix
Sonoran Desert
Mexicali
Gila Box Riparian NCA
Ironwood Forest
Map Created by GeoCommunicator
0 54mi
0 86km
Done
Local intranet

Layers

Visible

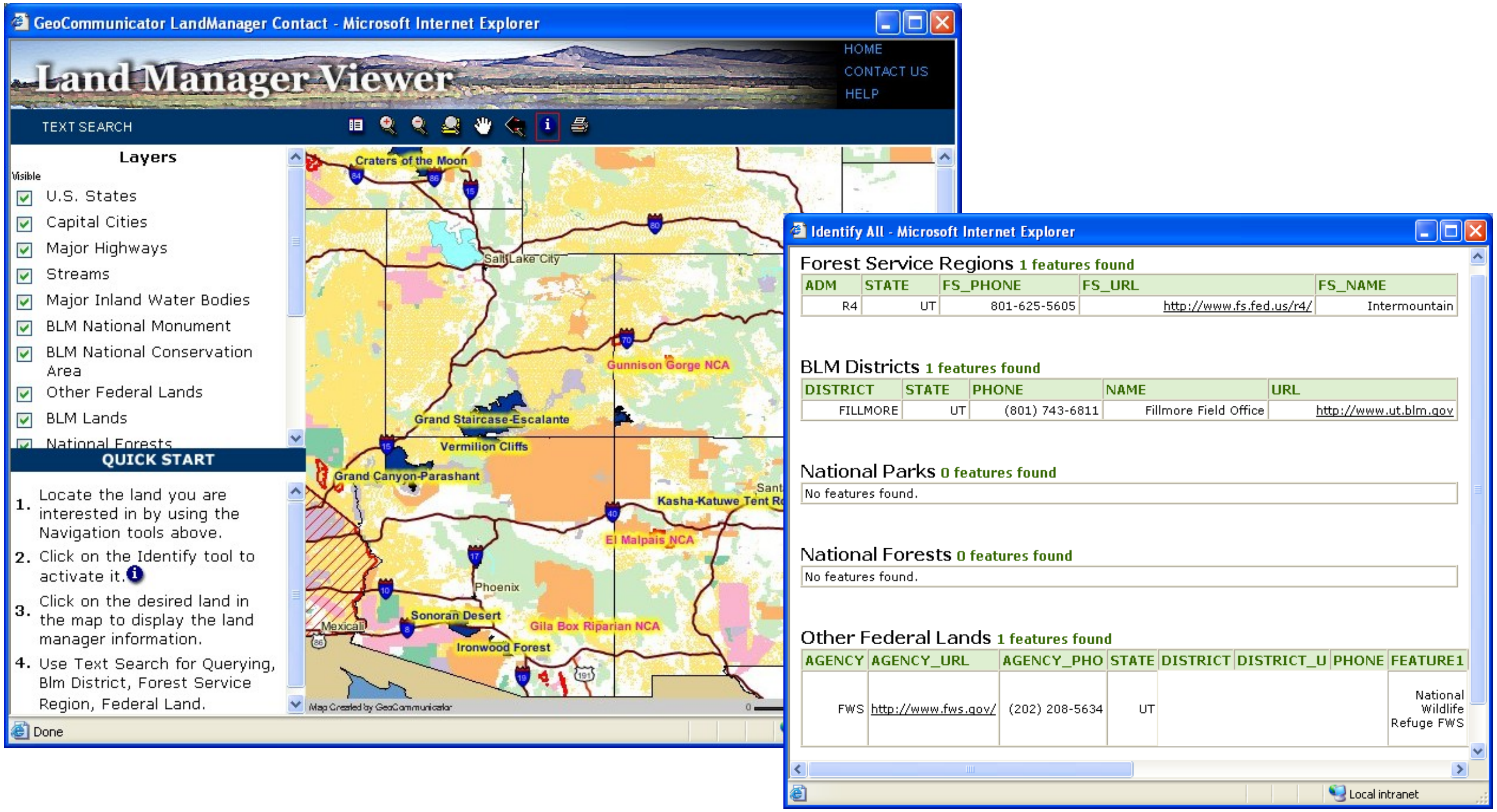
- ☑ U.S. States
- ☑ Capital Cities
- ☑ Major Highways
- ☑ Streams
- ☑ Major Inland Water Bodies
- ☑ BLM National Monument
- ☑ BLM National Conservation Area
- ☑ Other Federal Lands
- ☑ BLM Lands
- ☑ National Forests

QUICK START

1. Locate the land you are interested in by using the Navigation tools above.
2. Click on the Identify tool to activate it. ℹ
3. Click on the desired land in the map to display the land manager information.
4. Use Text Search for Querying, Blm District, Forest Service Region, Federal Land.

Land Browser Interface

Zoom, Pan, Search, and Identify


GeoCommunicator LandManager Contact - Microsoft Internet Explorer
Land Manager Viewer
HOME
CONTACT US
HELP
TEXT SEARCH
Craters of the Moon
Salt Lake City
Gunnison Gorge NCA
Grand Staircase-Escalante
Vermilion Cliffs
Grand Canyon-Parashant
Kasha-Katuwe Tent Rocks
El Malpais NCA
Phoenix
Sonoran Desert
Gila Box Riparian NCA
Ironwood Forest
Mexicali
Map Created by GeoCommunicator
Done
Identify All - Microsoft Internet Explorer
Local intranet

Layers

Visible

- ☑ U.S. States
- ☑ Capital Cities
- ☑ Major Highways
- ☑ Streams
- ☑ Major Inland Water Bodies
- ☑ BLM National Monument
- ☑ BLM National Conservation Area
- ☑ Other Federal Lands
- ☑ BLM Lands
- ☑ National Forests

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Forest Service Regions 1 features found

ADM	STATE	FS_PHONE	FS_URL	FS_NAME
R4	UT	801-625-5605	http://www.fs.fed.us/r4/	Intermountain

BLM Districts 1 features found

DISTRICT	STATE	PHONE	NAME	URL
FILLMORE	UT	(801) 743-6811	Fillmore Field Office	http://www.ut.blm.gov

National Parks 0 features found

No features found.

National Forests 0 features found

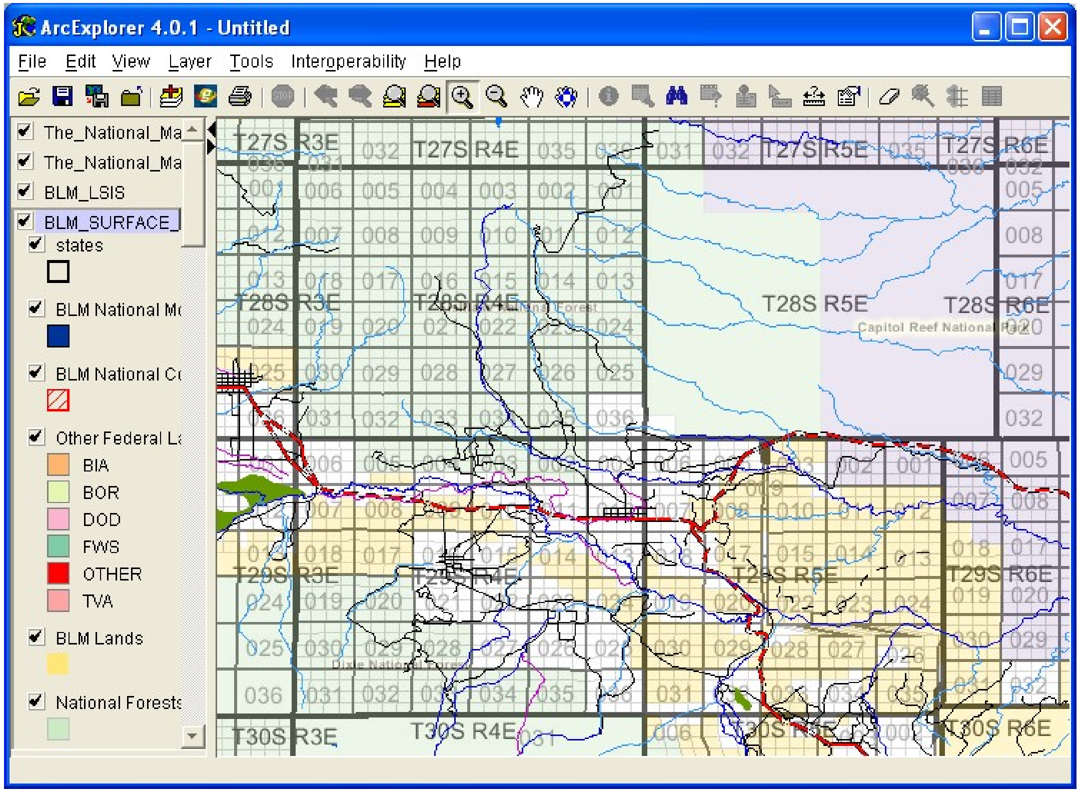
No features found.

Other Federal Lands 1 features found

AGENCY	AGENCY_URL	AGENCY_PHO	STATE	DISTRICT	DISTRICT_U	PHONE	FEATURE1
FWS	http://www.fws.gov/	(202) 208-5634	UT				National Wildlife Refuge FWS

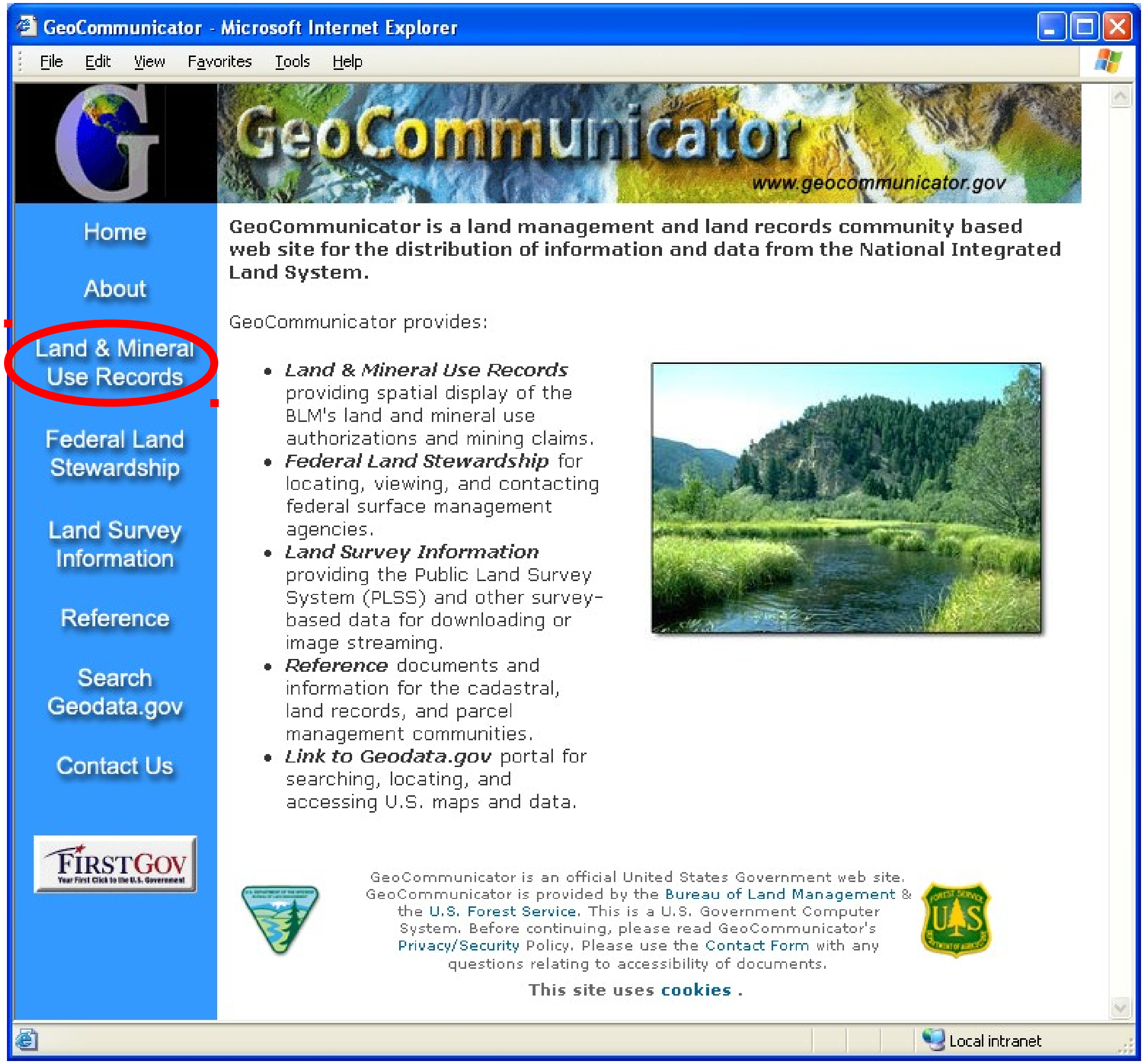
Integrate with other data layers through Desktop or Mobile GIS

Add data from the internet with the URL: http://lsi.blm.gov


ArcExplorer 4.0.1 - Untitled
File Edit View Layer Tools Interoperability Help
The_National_Ma
The_National_Ma
BLM_LSIS
BLM_SURFACE_
states
BLM National Mc
BLM National Cc
Other Federal La
BIA
BOR
DOD
FWS
OTHER
TVA
BLM Lands
National Forests
T27S R3E
T27S R4E
T27S R5E
T27S R6E
T28S R3E
T28S R4E
T28S R5E
T28S R6E
Capitol Reef National Park
T29S R3E
T29S R4E
T29S R5E
T29S R6E
Dixie National Forest
T30S R3E
T30S R4E
T30S R5E
T30S R6E

COMPAQ
pocket pc
iPAQ
Escalante National Monument
Glen Canyon National Recreation Area
Lake Powell
Paria Canyon-Vermilion Cliffs Wilderness
Navajo Indian Reservation
16.31km
8.16km
0km
1:341944
1:341274
36°51'40"N 111°34'7"W

Land & Mineral Use Records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File Edit View Favorites Tools Help
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Federal Land Stewardship
Land Survey Information
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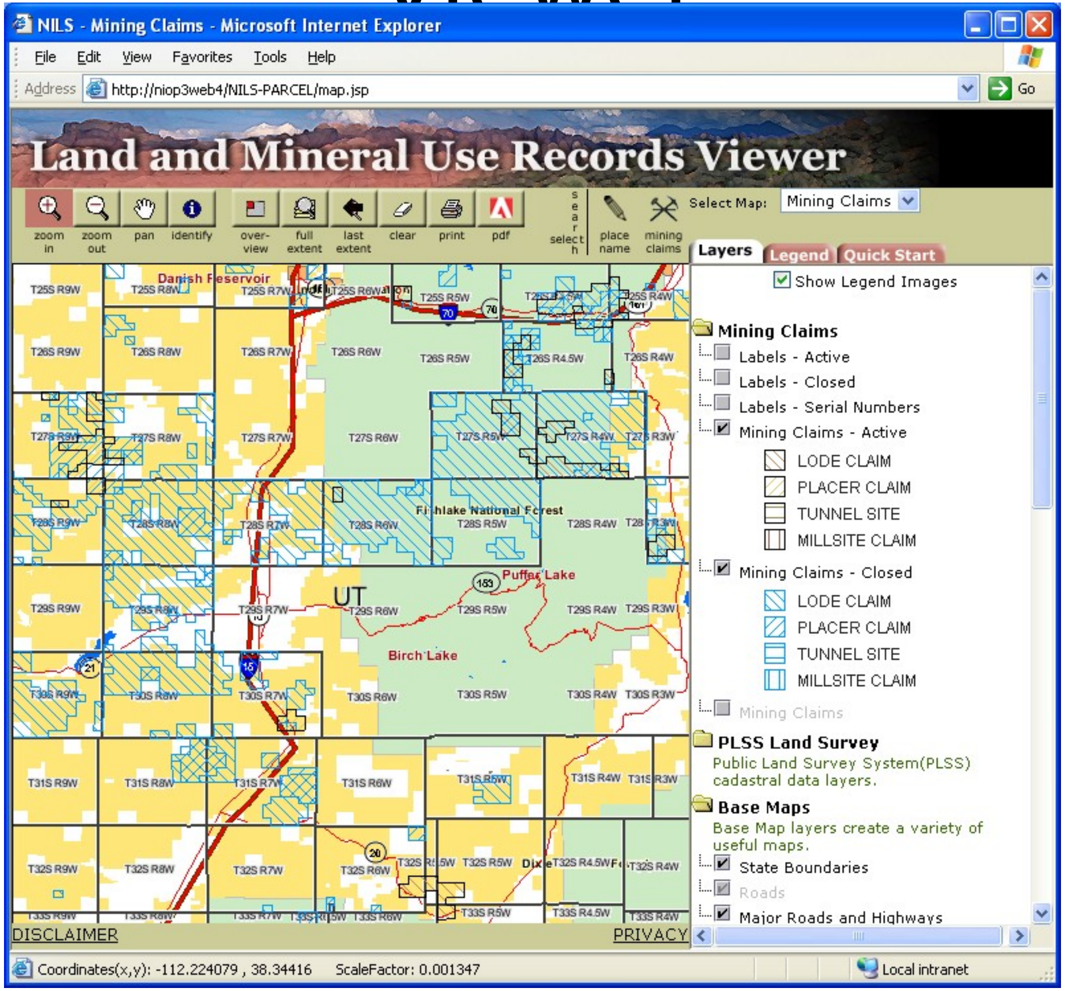
Land & Mineral Use Records Viewer


NILS - Mining Claims - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Go
Land and Mineral Use Records Viewer
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
pdf
search
select
place name
mining claims
Layers
Legend
Quick Start
Danish Reservoir
Fishlake National Forest
Puffer Lake
Birch Lake
UT
DISCLAIMER
PRIVACY
Local intranet

Address: http://niop3web4/NILS-PARCEL/map.jsp

Select Map: Mining Claims

☑ Show Legend Images

Mining Claims
- ☐ Labels - Active
- ☐ Labels - Closed
- ☐ Labels - Serial Numbers
- ☑ Mining Claims - Active
  - ▧ LODE CLAIM
  - ▨ PLACER CLAIM
  - ☐ TUNNEL SITE
  - ◫ MILLSITE CLAIM
- ☑ Mining Claims - Closed
  - ▧ LODE CLAIM
  - ▨ PLACER CLAIM
  - ☐ TUNNEL SITE
  - ◫ MILLSITE CLAIM
- ☐ Mining Claims

PLSS Land Survey
Public Land Survey System(PLSS) cadastral data layers.

Base Maps
Base Map layers create a variety of useful maps.
- ☑ State Boundaries
- ☑ Roads
- ☑ Major Roads and Highways

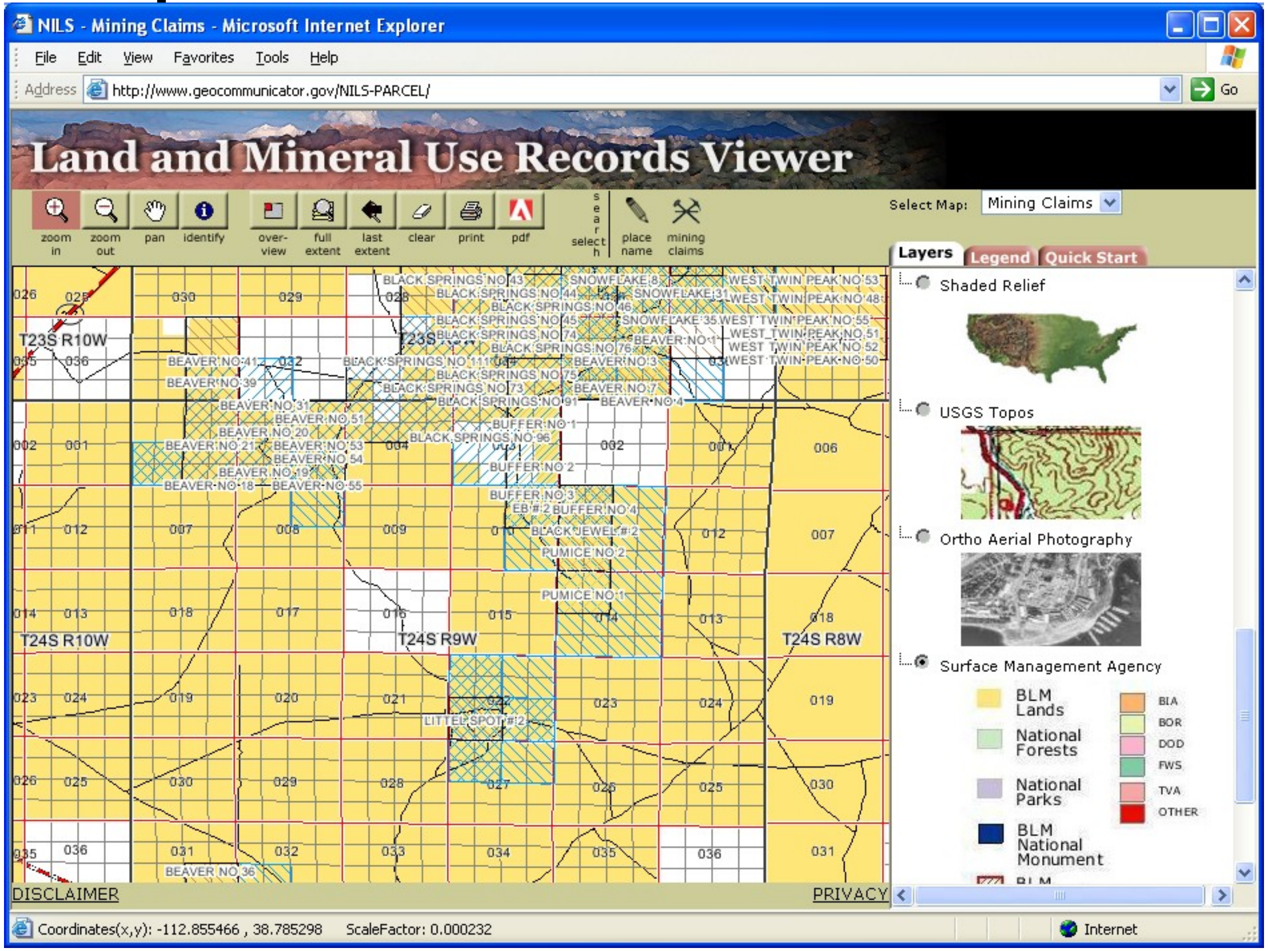
Coordinates(x,y): -112.224079 , 38.34416 ScaleFactor: 0.001347

Display of

Mining Claims

Oil & Gas Leases

View Land Records in Context with Other Spatial Reference Themes



NILS - Mining Claims - Microsoft Internet Explorer

Address: http://www.geocommunicator.gov/NILS-PARCEL/

Land and Mineral Use Records Viewer

Select Map: Mining Claims

Coordinates(x,y): -112.855466 , 38.785298 ScaleFactor: 0.000232

File
Edit
View
Favorites
Tools
Help
Go
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
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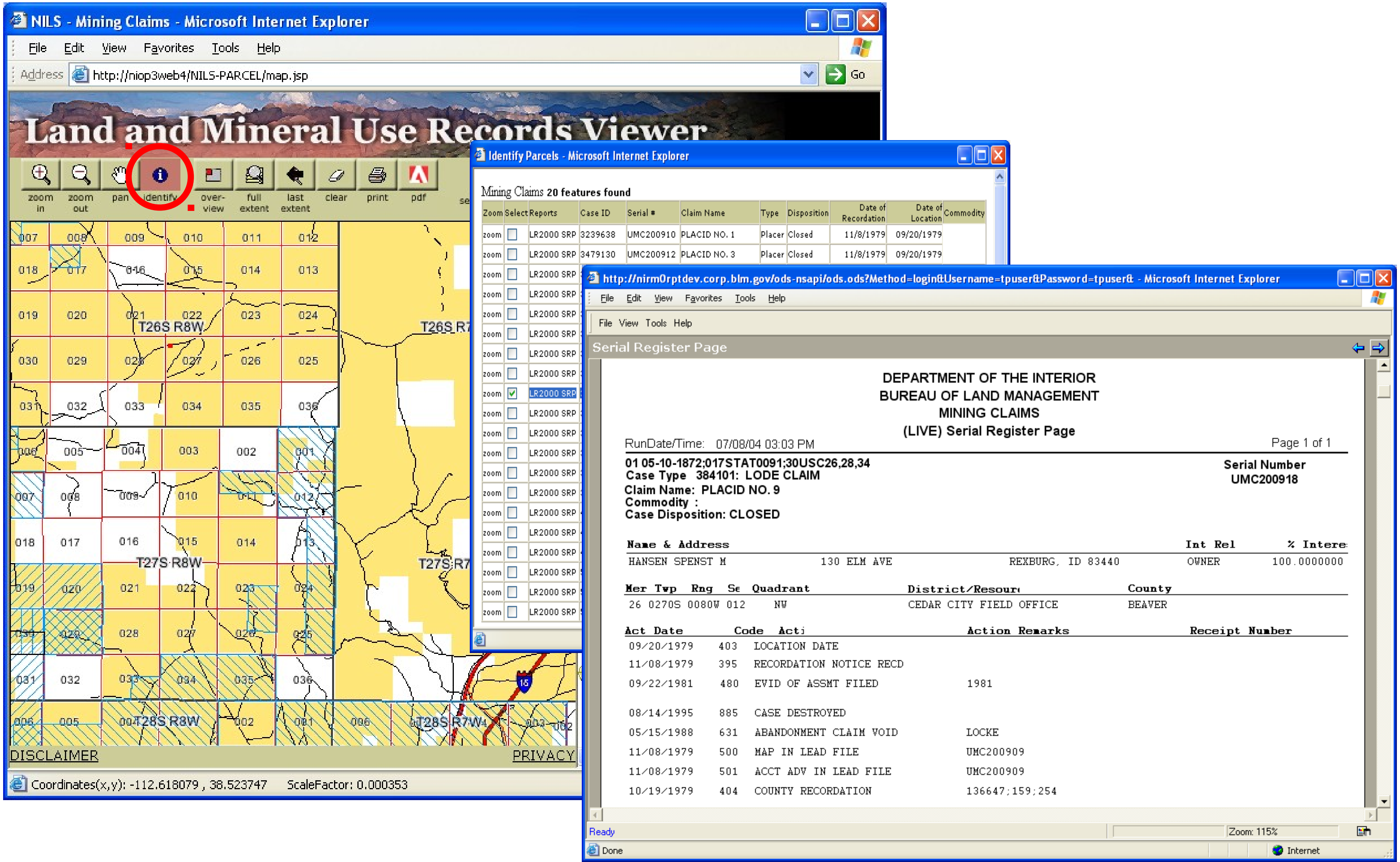
pdf
search
select
place name
mining claims
Layers
Legend
Quick Start
Shaded Relief
USGS Topos
Ortho Aerial Photography
Surface Management Agency
BLM Lands
National Forests
National Parks
BLM National Monument
BIA
BOR
DOD
FWS
TVA
OTHER
T23S R10W
T23S
T24S R10W
T24S R9W
T24S R8W
BLACK SPRINGS NO 43
BLACK SPRINGS NO 44
BLACK SPRINGS NO 46
BLACK SPRINGS NO 45
BLACK SPRINGS NO 74
BLACK SPRINGS NO 76
BLACK SPRINGS NO 111
BLACK SPRINGS NO 75
BLACK SPRINGS NO 73
BLACK SPRINGS NO 91
BLACK SPRINGS NO 96
SNOWFLAKE 8
SNOWFLAKE 31
SNOWFLAKE 35
WEST TWIN PEAK NO 53
WEST TWIN PEAK NO 48
WEST TWIN PEAK NO 55
WEST TWIN PEAK NO 51
WEST TWIN PEAK NO 52
WEST TWIN PEAK NO 50
BEAVER NO 1
BEAVER NO 3
BEAVER NO 7
BEAVER NO 4
BEAVER NO 41
BEAVER NO 39
BEAVER NO 31
BEAVER NO 51
BEAVER NO 20
BEAVER NO 21
BEAVER NO 53
BEAVER NO 54
BEAVER NO 19
BEAVER NO 18
BEAVER NO 55
BEAVER NO 36
BUFFER NO 1
BUFFER NO 2
BUFFER NO 3
BUFFER NO 4
EB #2
BLACK JEWEL #2
PUMICE NO 2
PUMICE NO 1
LITTEL SPOT #2
DISCLAIMER
PRIVACY
Internet

Links with Land & Mineral Use


NILS - Mining Claims - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://niop3web4/NILS-PARCEL/map.jsp
Go
Land and Mineral Use Records Viewer
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
pdf
T26S R8W
T26S R7
T27S R8W
T27S R7
T28S R8W
T28S R7W
15
DISCLAIMER
PRIVACY
Coordinates(x,y): -112.618079 , 38.523747 ScaleFactor: 0.000353
Identify Parcels - Microsoft Internet Explorer
http://nirm0rptdev.corp.blm.gov/ods-nsapi/ods.ods?Method=login&Username=tpuser&Password=tpuser& - Microsoft Internet Explorer
File Edit View Favorites Tools Help
File View Tools Help
Serial Register Page
Ready
Zoom: 115%
Done
Internet

Mining Claims **20 features found**

Zoom	Select	Reports	Case ID	Serial #	Claim Name	Type	Disposition	Date of Recordation	Date of Location	Commodity
zoom	☐	LR2000 SRP	3239638	UMC200910	PLACID NO. 1	Placer	Closed	11/8/1979	09/20/1979	
zoom	☐	LR2000 SRP	3479130	UMC200912	PLACID NO. 3	Placer	Closed	11/8/1979	09/20/1979	
zoom	☐	LR2000 SRP								
zoom	☐	LR2000 SRP								
zoom	☐	LR2000 SRP								
zoom	☐	LR2000 SRP								
zoom	☐	LR2000 SRP								
zoom	☐	LR2000 SRP								
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zoom	☐	LR2000 SRP								

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MINING CLAIMS
(LIVE) Serial Register Page

RunDate/Time: 07/08/04 03:03 PM Page 1 of 1

01 05-10-1872;017STAT0091;30USC26,28,34
Case Type 384101: LODE CLAIM
Claim Name: PLACID NO. 9
Commodity :
Case Disposition: CLOSED

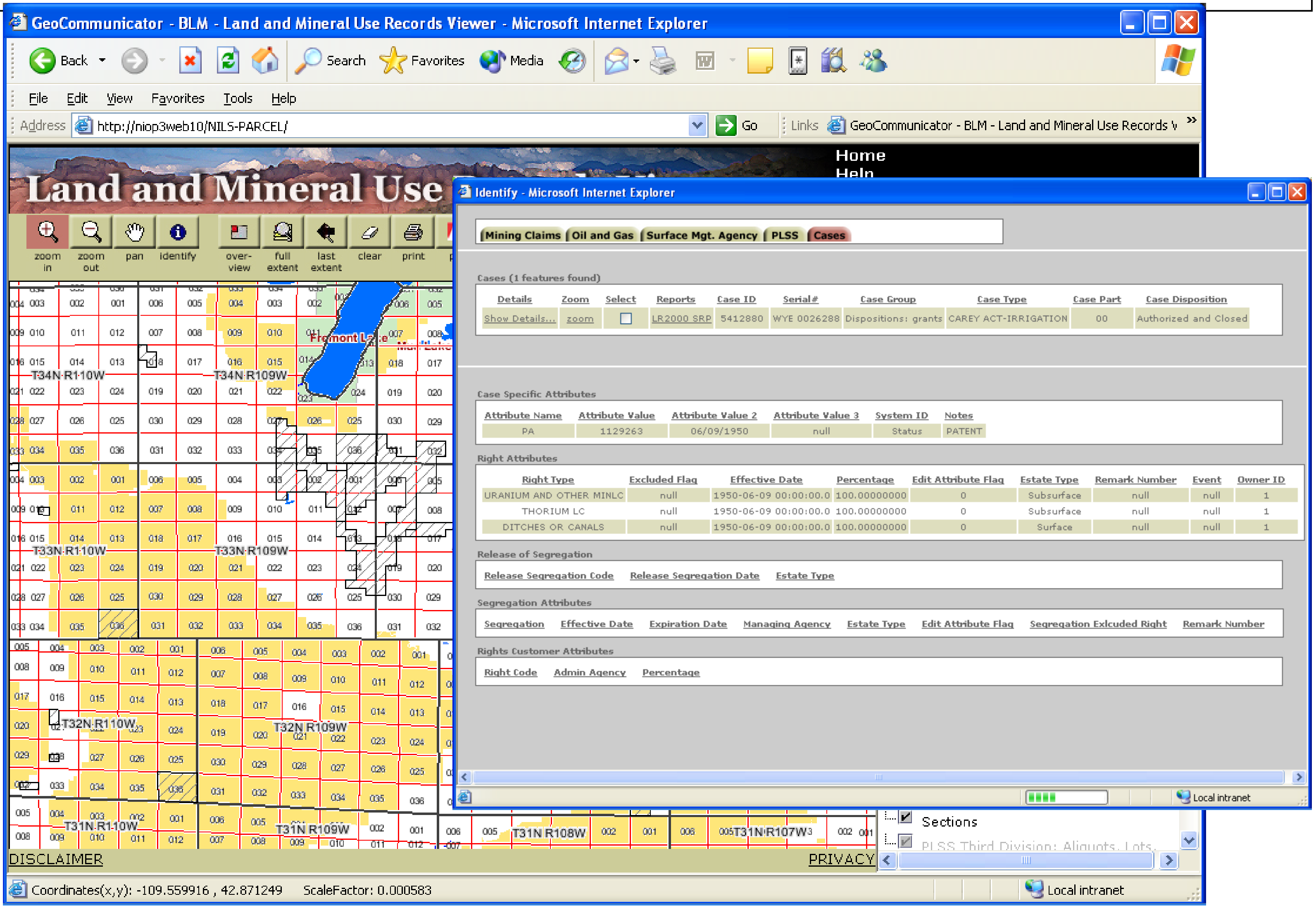
Serial Number
UMC200918

Name & Address			Int Rel	% Intere
HANSEN SPENST M	130 ELM AVE	REXBURG, ID 83440	OWNER	100.0000000

Mer	Twp	Rng	Se	Quadrant	District/Resour	County
26	0270S	0080W	012	NW	CEDAR CITY FIELD OFFICE	BEAVER

Act Date	Code	Acti	Action Remarks	Receipt Number
09/20/1979	403	LOCATION DATE		
11/08/1979	395	RECORDATION NOTICE RECD		
09/22/1981	480	EVID OF ASSMT FILED	1981	
08/14/1995	885	CASE DESTROYED		
05/15/1988	631	ABANDONMENT CLAIM VOID	LOCKE	
11/08/1979	500	MAP IN LEAD FILE	UMC200909	
11/08/1979	501	ACCT ADV IN LEAD FILE	UMC200909	
10/19/1979	404	COUNTY RECORDATION	136647;159;254	

Cases Affecting Land Status


GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer
Back
Search
Favorites
Media
File
Edit
View
Favorites
Tools
Help
Address
Go
Links
GeoCommunicator - BLM - Land and Mineral Use Records V
Land and Mineral Use
Home
Help
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
Fremont Lake
T34N R110W
T34N R109W
T33N R110W
T33N R109W
T32N R110W
T32N R109W
T31N R110W
T31N R109W
T31N R108W
T31N R107W
Sections
PLSS Third Division: Aliquots, Lots
DISCLAIMER
PRIVACY
Local intranet
Identify - Microsoft Internet Explorer
Mining Claims
Oil and Gas
Surface Mgt. Agency
PLSS
Cases
Local intranet

Address: http://niop3web10/NILS-PARCEL/

Cases (1 features found)

Details	Zoom	Select	Reports	Case ID	Serial#	Case Group	Case Type	Case Part	Case Disposition
Show Details...	zoom	☐	LR2000 SRP	5412880	WYE 0026288	Dispositions: grants	CAREY ACT-IRRIGATION	00	Authorized and Closed

Case Specific Attributes

Attribute Name	Attribute Value	Attribute Value 2	Attribute Value 3	System ID	Notes
PA	1129263	06/09/1950	null	Status	PATENT

Right Attributes

Right Type	Excluded Flag	Effective Date	Percentage	Edit Attribute Flag	Estate Type	Remark Number	Event	Owner ID
URANIUM AND OTHER MINLC	null	1950-06-09 00:00:00.0	100.00000000	0	Subsurface	null	null	1
THORIUM LC	null	1950-06-09 00:00:00.0	100.00000000	0	Subsurface	null	null	1
DITCHES OR CANALS	null	1950-06-09 00:00:00.0	100.00000000	0	Surface	null	null	1

Release of Segregation

Release Segregation Code	Release Segregation Date	Estate Type

Segregation Attributes

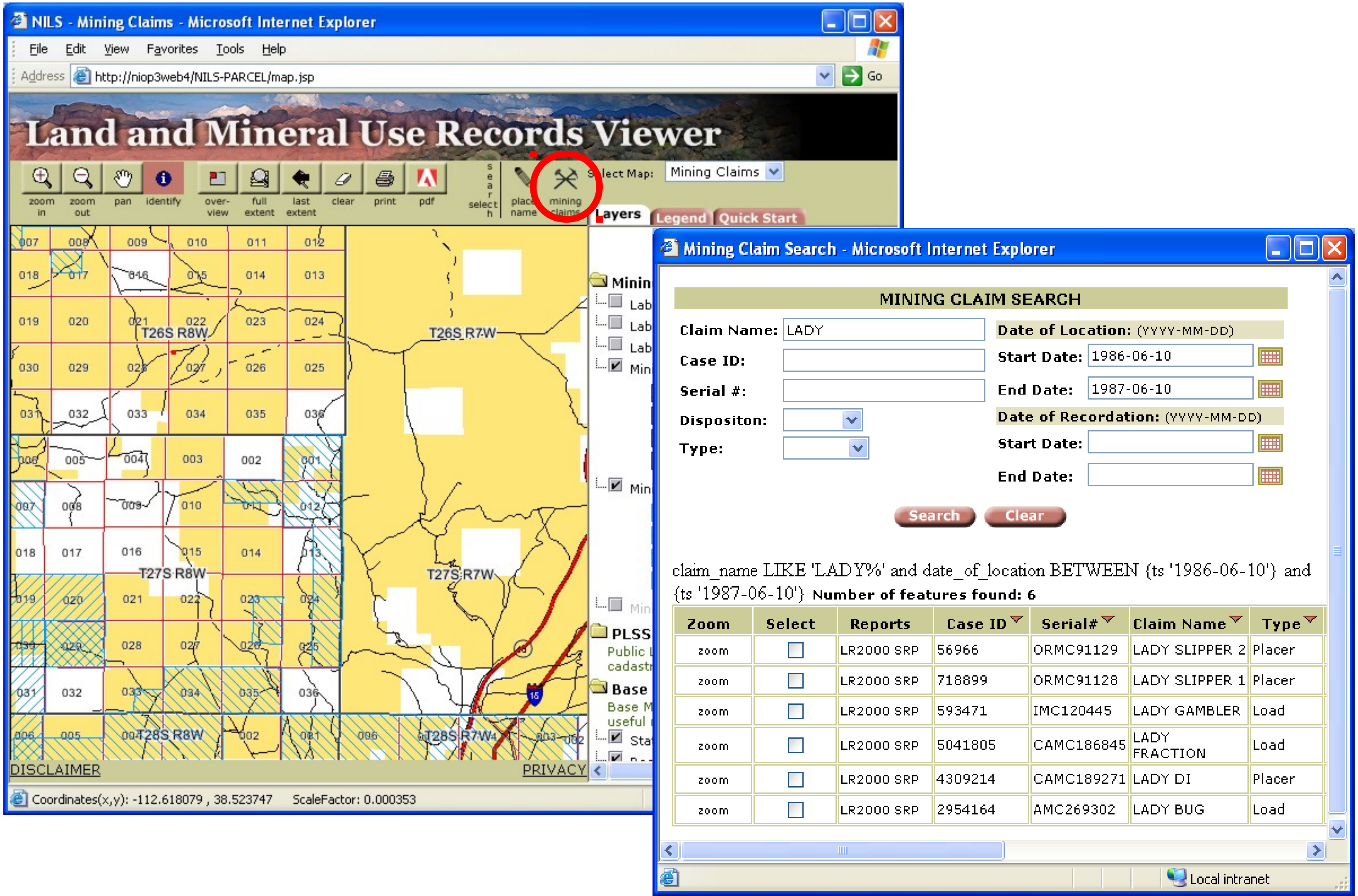
Segregation	Effective Date	Expiration Date	Managing Agency	Estate Type	Edit Attribute Flag	Segregation Exlcuded Right	Remark Number

Rights Customer Attributes

Right Code	Admin Agency	Percentage

Coordinates(x,y): -109.559916 , 42.871249 ScaleFactor: 0.000583

Allows Searching by Record


File
Edit
View
Favorites
Tools
Help
Go
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
pdf
search
select
place name
mining claims
Layers
Legend
Quick Start
T26S R8W
T26S R7W
T27S R8W
T27S R7W
T28S R8W
T28S R7W
DISCLAIMER
PRIVACY
Local intranet

NILS - Mining Claims - Microsoft Internet Explorer

Address http://niop3web4/NILS-PARCEL/map.jsp

Land and Mineral Use Records Viewer

Select Map: Mining Claims

Coordinates(x,y): -112.618079 , 38.523747 ScaleFactor: 0.000353

Mining Claim Search - Microsoft Internet Explorer

MINING CLAIM SEARCH

Claim Name: LADY

Case ID:

Serial #:

Dispositon:

Type:

Date of Location: (YYYY-MM-DD)

Start Date: 1986-06-10

End Date: 1987-06-10

Date of Recordation: (YYYY-MM-DD)

Start Date:

End Date:

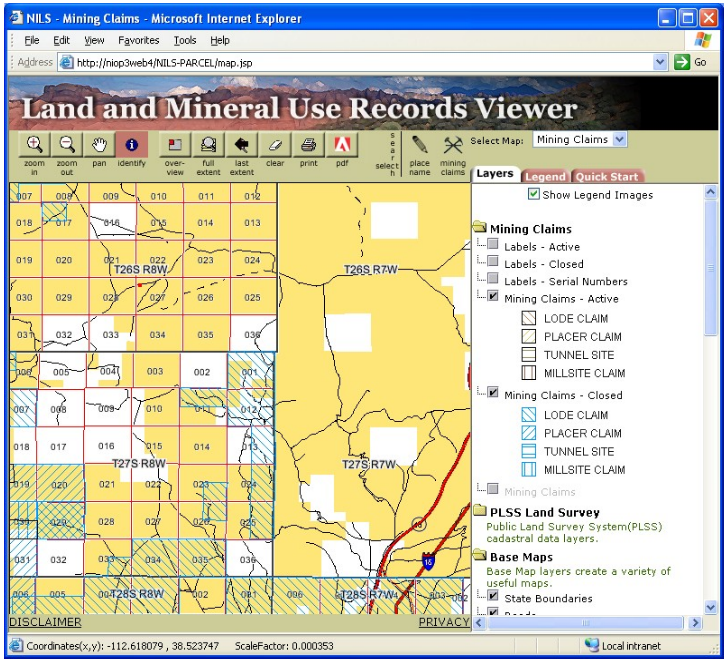
Search Clear

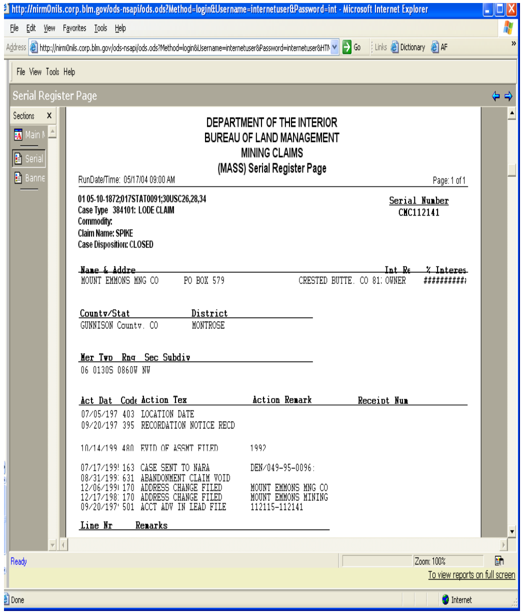
claim_name LIKE 'LADY%' and date_of_location BETWEEN {ts '1986-06-10'} and {ts '1987-06-10'} **Number of features found: 6**

Zoom	Select	Reports	Case ID	Serial#	Claim Name	Type
zoom	☐	LR2000 SRP	56966	ORMC91129	LADY SLIPPER 2	Placer
zoom	☐	LR2000 SRP	718899	ORMC91128	LADY SLIPPER 1	Placer
zoom	☐	LR2000 SRP	593471	IMC120445	LADY GAMBLER	Load
zoom	☐	LR2000 SRP	5041805	CAMC186845	LADY FRACTION	Load
zoom	☐	LR2000 SRP	4309214	CAMC189271	LADY DI	Placer
zoom	☐	LR2000 SRP	2954164	AMC269302	LADY BUG	Load

Direct Link with Land & Mineral Use Record System

Spatial System


NILS - Mining Claims - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://niop3web4/NILS-PARCEL/map.jsp
Go
Land and Mineral Use Records Viewer
zoom in
zoom out
pan
identify
over-view
full extent
last extent
clear
print
pdf
search
place name
mining claims
Select Map: Mining Claims
Layers
Legend
Quick Start
☑ Show Legend Images
Mining Claims
☐ Labels - Active
☐ Labels - Closed
☐ Labels - Serial Numbers
☑ Mining Claims - Active
LODE CLAIM
PLACER CLAIM
TUNNEL SITE
MILLSITE CLAIM
☑ Mining Claims - Closed
LODE CLAIM
PLACER CLAIM
TUNNEL SITE
MILLSITE CLAIM
☐ Mining Claims
PLSS Land Survey
Public Land Survey System(PLSS) cadastral data layers.
Base Maps
Base Map layers create a variety of useful maps.
☑ State Boundaries
T26S R8W
T26S R7W
T27S R8W
T27S R7W
T28S R8W
T28S R7W
DISCLAIMER
PRIVACY
Coordinates(x,y): -112.618079 , 38.523747 ScaleFactor: 0.000353
Local intranet


http://nirm0nils.corp.blm.gov/ods-nsapi/ods.ods?Method=login&Username=internetuser&Password=int - Microsoft Internet Explorer
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Internet

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MINING CLAIMS
(MASS) Serial Register Page

RunDate/Time: 05/17/04 09:00 AM
Page: 1 of 1

01 05-10-1872;017STAT0091;30USC26,28,34
Case Type 384101: LODE CLAIM
Commodity:
Claim Name: SPIKE
Case Disposition: CLOSED

Serial Number
CMC112141

Name & Addre			Int Re	% Interes
MOUNT EMMONS MNG CO	PO BOX 579	CRESTED BUTTE. CO 81:	OWNER	##########:

County/Stat	District
GUNNISON County. CO	MONTROSE

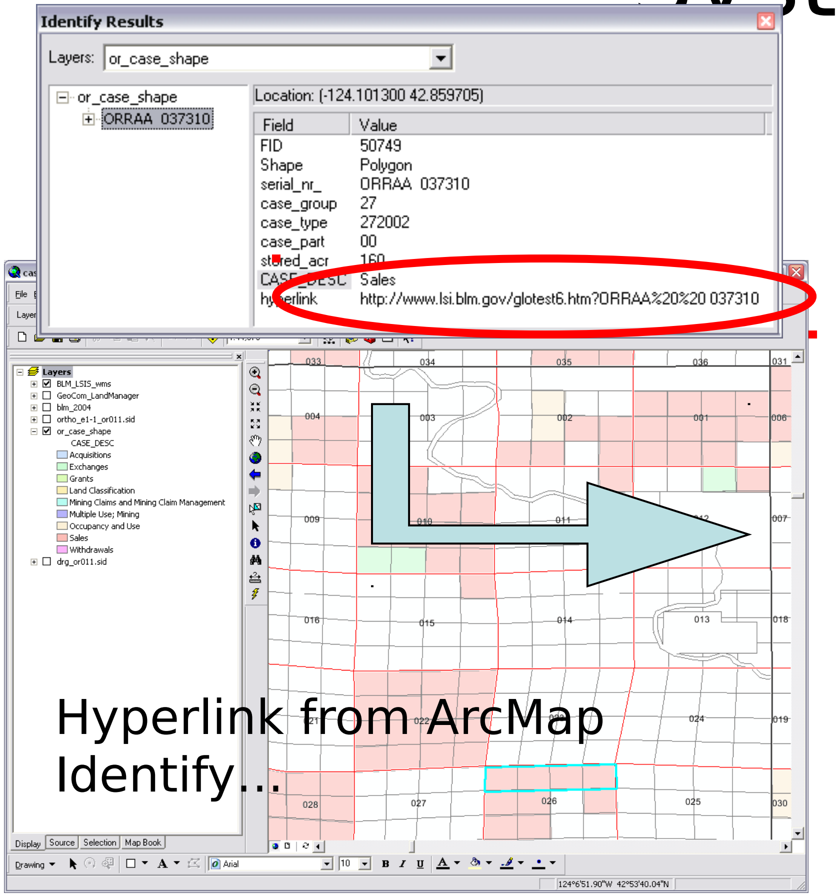
Mer Twp Rng Sec Subdiv
06 0130S 0860W NW

Act Dat	Code	Action Tex	Action Remark	Receipt Num
07/05/197	403	LOCATION DATE		
09/20/197	395	RECORDATION NOTICE RECD		
10/14/199	480	EVID OF ASSMT FILED	1992	
07/17/199	163	CASE SENT TO NARA	DEN/049-95-0096:	
08/31/199	631	ABANDONMENT CLAIM VOID		
12/06/199	170	ADDRESS CHANGE FILED	MOUNT EMMONS MNG CO	
12/17/198	170	ADDRESS CHANGE FILED	MOUNT EMMONS MINING	
09/20/197	501	ACCT ADV IN LEAD FILE	112115-112141	

Line Nr	Remarks

Text-based System

Integration with other Land Record Syste


Identify Results
Layers: or_case_shape
or_case_shape
ORRAA 037310
Layers
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GeoCom_LandManager
blm_2004
ortho_e1-1_or011.sid
or_case_shape
CASE_DESC
Acquisitions
Exchanges
Grants
Land Classification
Mining Claims and Mining Claim Management
Multiple Use; Mining
Occupancy and Use
Sales
Withdrawals
drg_or011.sid
Display
Source
Selection
Map Book
Drawing
Arial
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Location: (-124.101300 42.859705)

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Shape	Polygon
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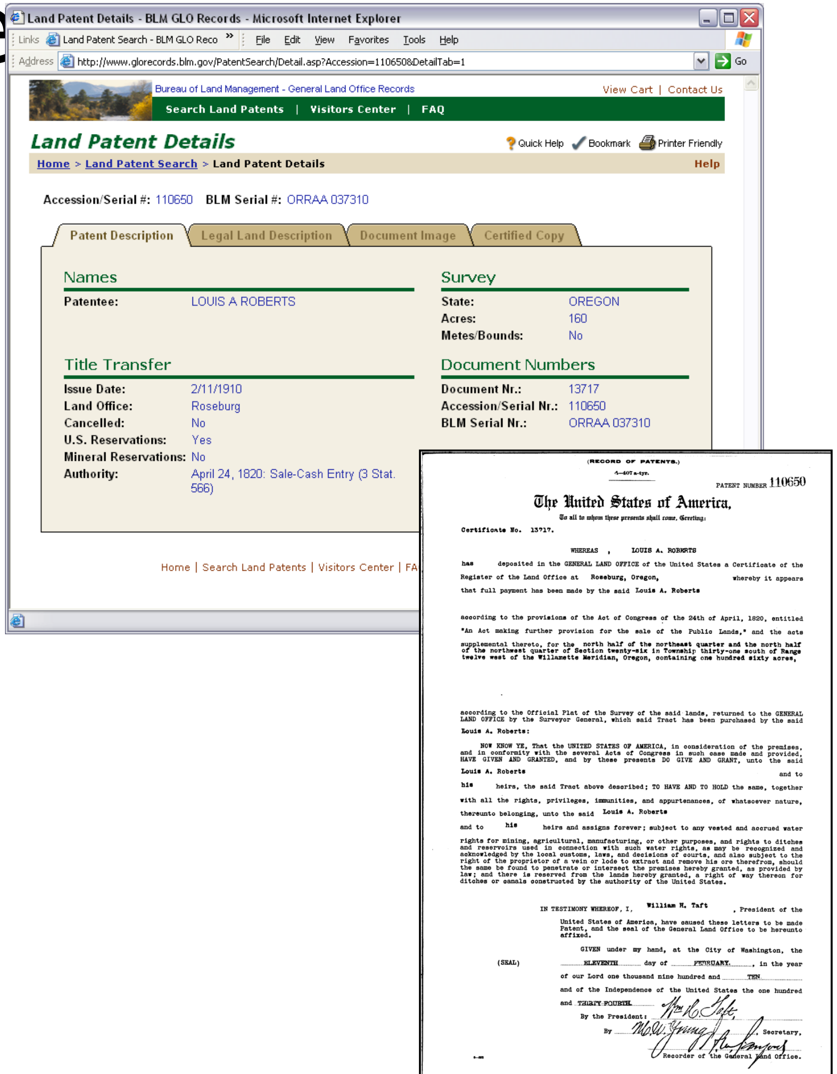
case_type	272002
case_part	00
stored_acr	160
CASE_DESC	Sales
hyperlink	http://www.lsi.blm.gov/glotest6.htm?ORRAA%20%20 037310

Hyperlink from ArcMap Identify…


Land Patent Details - BLM GLO Records - Microsoft Internet Explorer
Links
Land Patent Search - BLM GLO Reco
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Tools
Help
Address
http://www.glorecords.blm.gov/PatentSearch/Detail.asp?Accession=110650&DetailTab=1
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Certified Copy
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Land Patent Details

Accession/Serial #: 110650 **BLM Serial #:** ORRAA 037310

Names

Patentee: LOUIS A ROBERTS

Survey

State: OREGON
Acres: 160
Metes/Bounds: No

Title Transfer

Issue Date: 2/11/1910
Land Office: Roseburg
Cancelled: No
U.S. Reservations: Yes
Mineral Reservations: No
Authority: April 24, 1820: Sale-Cash Entry (3 Stat. 566)

Document Numbers

Document Nr.: 13717
Accession/Serial Nr.: 110650
BLM Serial Nr.: ORRAA 037310

(RECORD OF PATENTS.)
4—407 a-tyr.

PATENT NUMBER 110650

The United States of America,
To all to whom these presents shall come, Greeting:

Certificate No. 13717.

WHEREAS , LOUIS A. ROBERTS

has deposited in the GENERAL LAND OFFICE of the United States a Certificate of the Register of the Land Office at Roseburg, Oregon, whereby it appears that full payment has been made by the said Louis A. Roberts

according to the provisions of the Act of Congress of the 24th of April, 1820, entitled "An Act making further provision for the sale of the Public Lands," and the acts supplemental thereto, for the north half of the northeast quarter and the north half of the northwest quarter of Section twenty-six in Township thirty-one south of Range twelve west of the Willamette Meridian, Oregon, containing one hundred sixty acres,

according to the Official Plat of the Survey of the said lands, returned to the GENERAL LAND OFFICE by the Surveyor General, which said Tract has been purchased by the said Louis A. Roberts:

NOW KNOW YE, That the UNITED STATES OF AMERICA, in consideration of the premises, and in conformity with the several Acts of Congress in such case made and provided, HAVE GIVEN AND GRANTED, and by these presents DO GIVE AND GRANT, unto the said Louis A. Roberts and to his heirs, the said Tract above described; TO HAVE AND TO HOLD the same, together with all the rights, privileges, immunities, and appurtenances, of whatsoever nature, thereunto belonging, unto the said Louis A. Roberts and to his heirs and assigns forever; subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local customs, laws, and decisions of courts, and also subject to the right of the proprietor of a vein or lode to extract and remove his ore therefrom, should the same be found to penetrate or intersect the premises hereby granted, as provided by law; and there is reserved from the lands hereby granted, a right of way thereon for ditches or canals constructed by the authority of the United States.

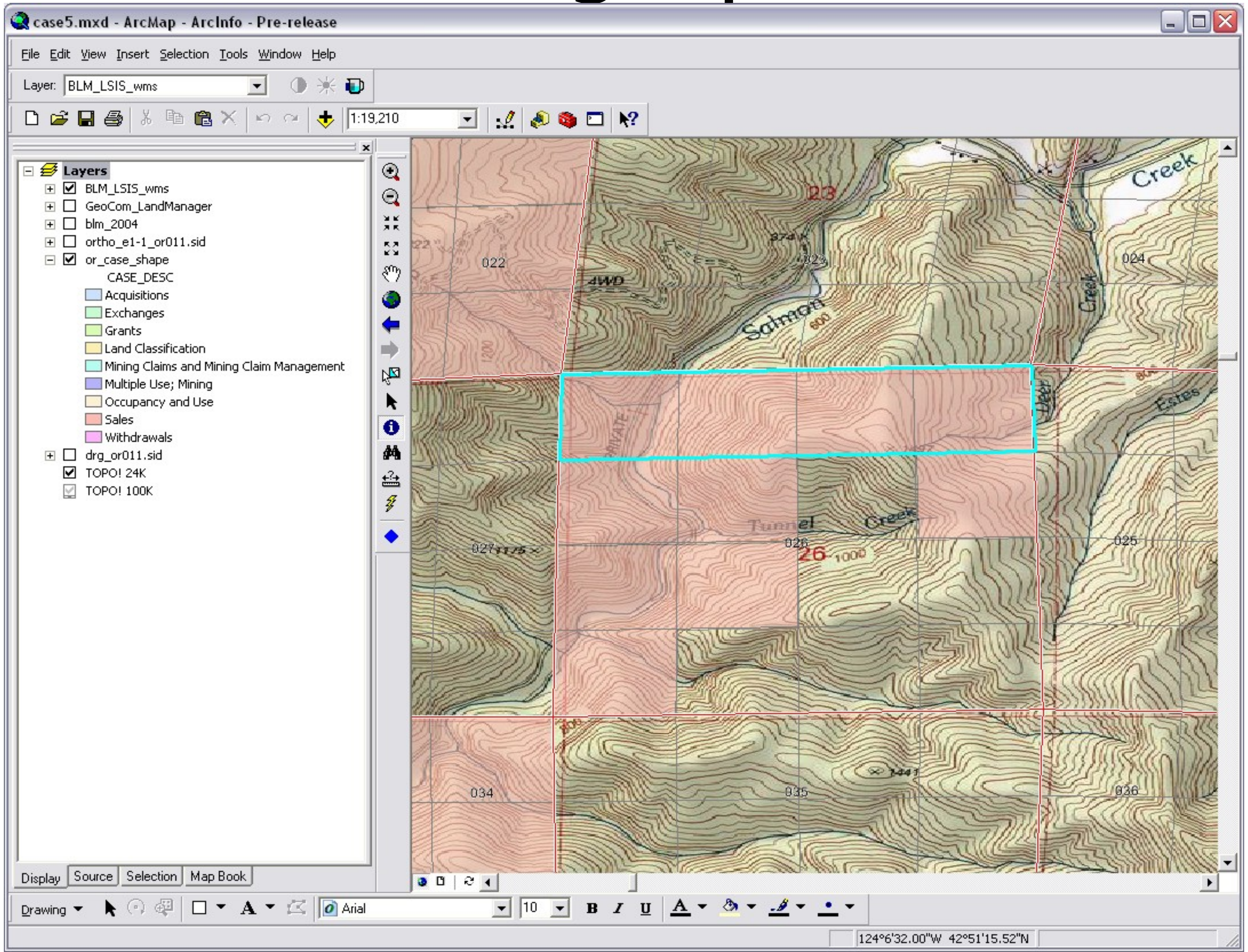
IN TESTIMONY WHEREOF, I, William H. Taft , President of the United States of America, have caused these letters to be made Patent, and the seal of the General Land Office to be hereunto affixed.

GIVEN under my hand, at the City of Washington, the ELEVENTH day of FEBRUARY, in the year of our Lord one thousand nine hundred and TEN and of the Independence of the United States the one hundred and THIRTY FOURTH.

(SEAL)

By the President: Wm H. Taft
By M. W. Young, Secretary,
Recorder of the General Land Office.

Topographic Reference from National Geographic TOPO!



case5.mxd - ArcMap - ArcInfo - Pre-release

Layer: BLM_LSIS_wms

1:19,210

Layers
- ☑ BLM_LSIS_wms
- ☐ GeoCom_LandManager
- ☐ blm_2004
- ☐ ortho_e1-1_or011.sid
- ☑ or_case_shape
  - CASE_DESC
  - Acquisitions
  - Exchanges
  - Grants
  - Land Classification
  - Mining Claims and Mining Claim Management
  - Multiple Use; Mining
  - Occupancy and Use
  - Sales
  - Withdrawals
- ☐ drg_or011.sid
- ☑ TOPO! 24K
- ☑ TOPO! 100K

124°6'32.00"W 42°51'15.52"N

File Edit View Insert Selection Tools Window Help
Display
Source
Selection
Map Book
Drawing
Arial
10
Creek
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022
024
4WD
Salmon
Creek
Estes
PRIVATE
Tunnel
Creek
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26
1000
027
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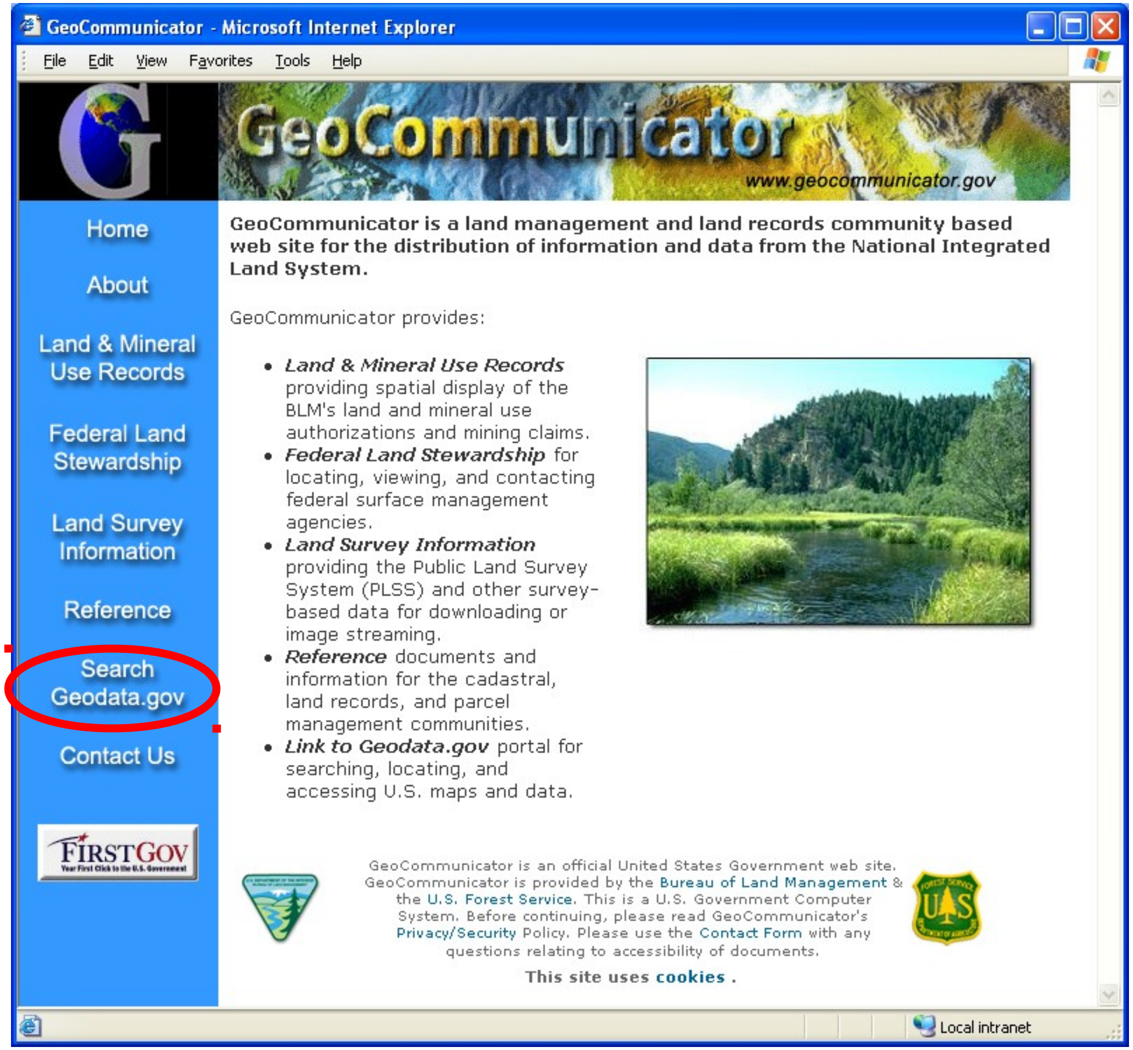
To Find More Map Streaming Services…


GeoCommunicator - Microsoft Internet Explorer
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Federal Land Stewardship
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Local intranet

GeoCommunicator is a land management and land records community based web site for the distribution of information and data from the National Integrated Land System.

GeoCommunicator provides:

- ***Land & Mineral Use Records*** providing spatial display of the BLM's land and mineral use authorizations and mining claims.
- ***Federal Land Stewardship*** for locating, viewing, and contacting federal surface management agencies.
- ***Land Survey Information*** providing the Public Land Survey System (PLSS) and other survey-based data for downloading or image streaming.
- ***Reference*** documents and information for the cadastral, land records, and parcel management communities.
- ***Link to Geodata.gov*** portal for searching, locating, and accessing U.S. maps and data.

GeoCommunicator is an official United States Government web site. GeoCommunicator is provided by the Bureau of Land Management & the U.S. Forest Service. This is a U.S. Government Computer System. Before continuing, please read GeoCommunicator's Privacy/Security Policy. Please use the Contact Form with any questions relating to accessibility of documents.

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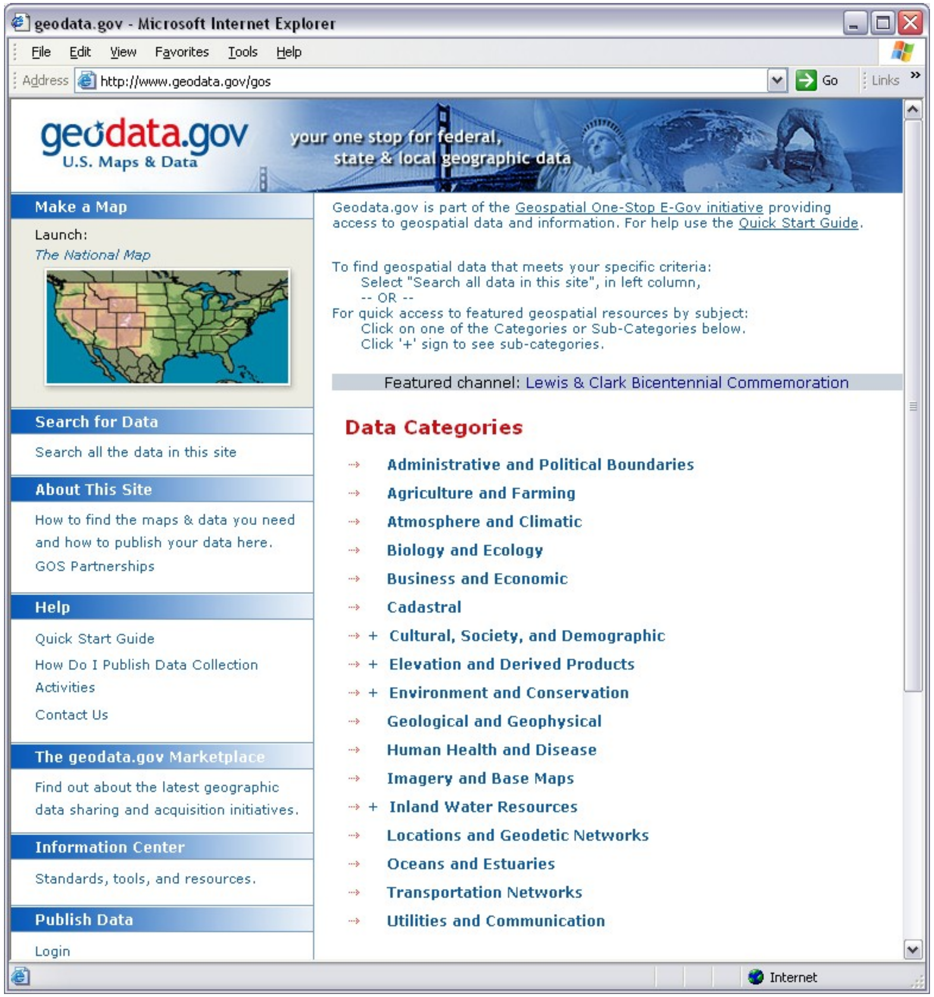
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state & local geographic data

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Click '+' sign to see sub-categories.

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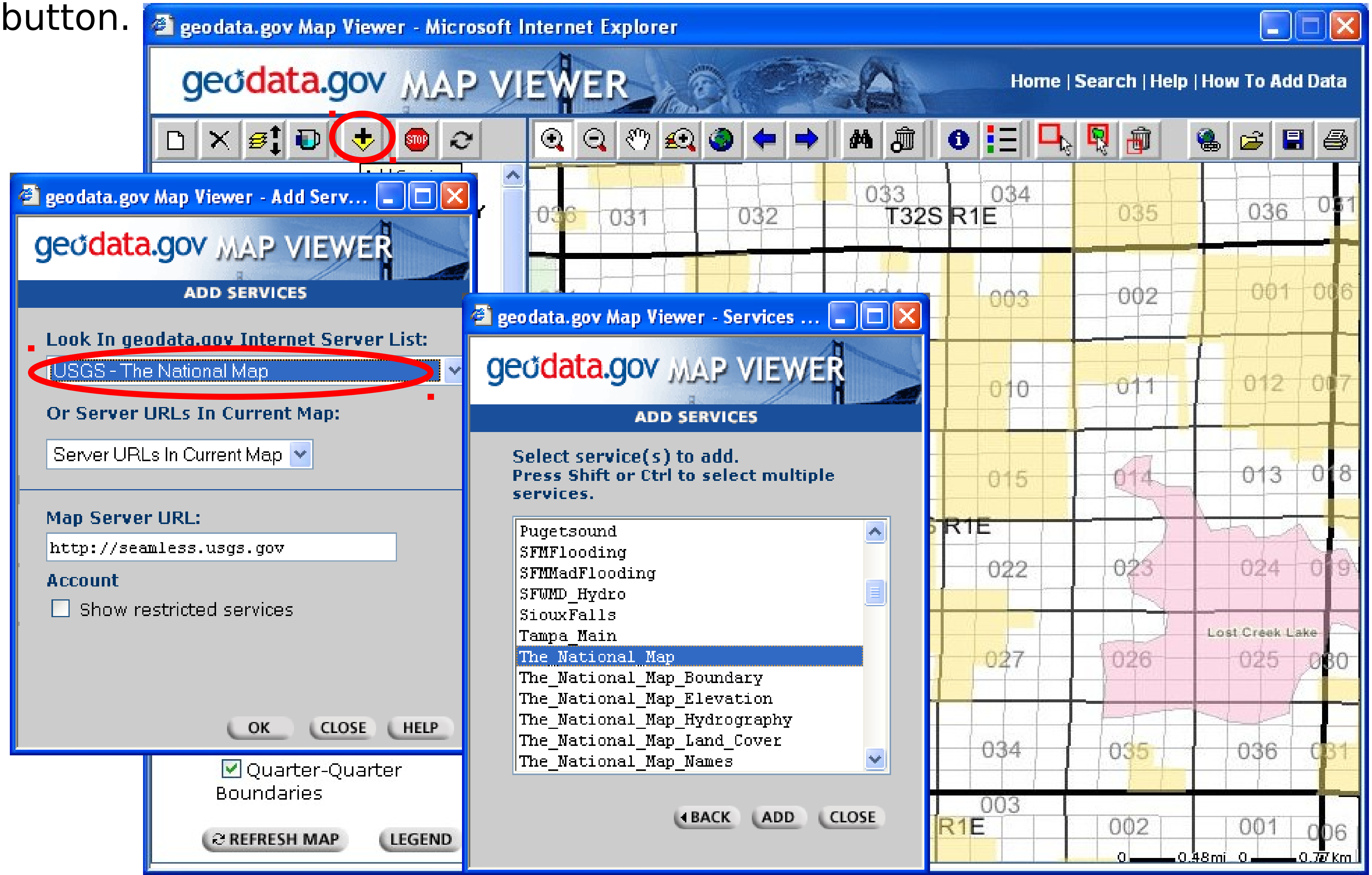
Data Categories

- Administrative and Political Boundaries
- Agriculture and Farming
- Atmosphere and Climatic
- Biology and Ecology
- Business and Economic
- Cadastral
- + Cultural, Society, and Demographic
- + Elevation and Derived Products
- + Environment and Conservation
- Geological and Geophysical
- Human Health and Disease
- Imagery and Base Maps
- + Inland Water Resources
- Locations and Geodetic Networks
- Oceans and Estuaries
- Transportation Networks
- Utilities and Communication

Additional layers can be added through the “Add Services” button.



geodata.gov Map Viewer - Add Serv...

ADD SERVICES

Look In geodata.gov Internet Server List: USGS - The National Map

Or Server URLs In Current Map: Server URLs In Current Map

Map Server URL: http://seamless.usgs.gov

Account

☐ Show restricted services

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ADD SERVICES

Select service(s) to add.
Press Shift or Ctrl to select multiple services.

- Pugetsound
- SFMFlooding
- SFMMadFlooding
- SFWMD_Hydro
- SiouxFalls
- Tampa_Main
- The_National_Map
- The_National_Map_Boundary
- The_National_Map_Elevation
- The_National_Map_Hydrography
- The_National_Map_Land_Cover
- The_National_Map_Names

☑ Quarter-Quarter Boundaries

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geodata.gov MAP VIEWER
Home | Search | Help | How To Add Data
OK
CLOSE
HELP
BACK
ADD
CLOSE
REFRESH MAP
LEGEND
033
034
T32S R1E
035
036
031
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003
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Lost Creek Lake
034
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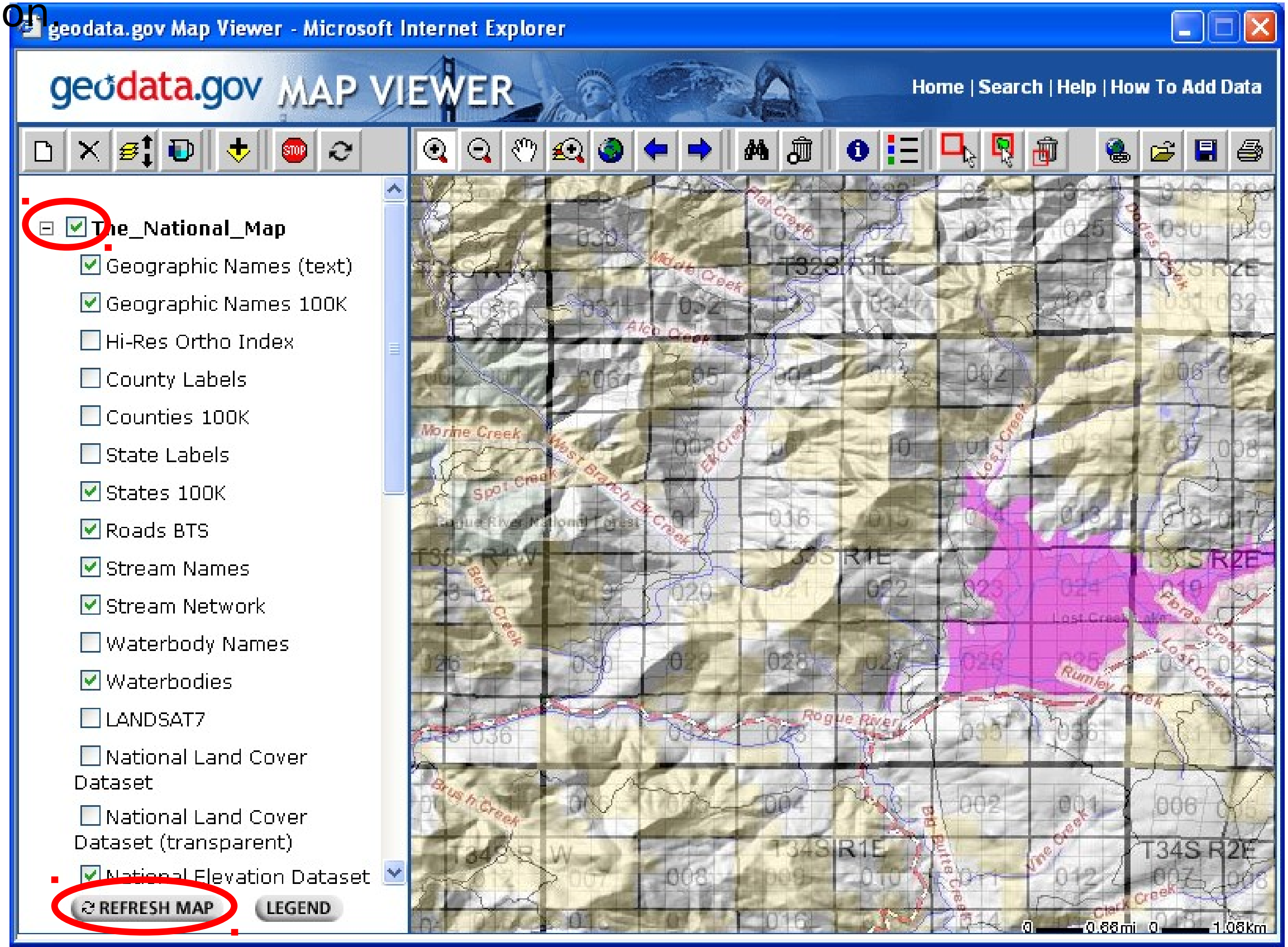
036
031
0.48mi
0.77km

Check the visibility boxes of added layers and click the “REFRESH MAP” button.



geodata.gov Map Viewer - Microsoft Internet Explorer

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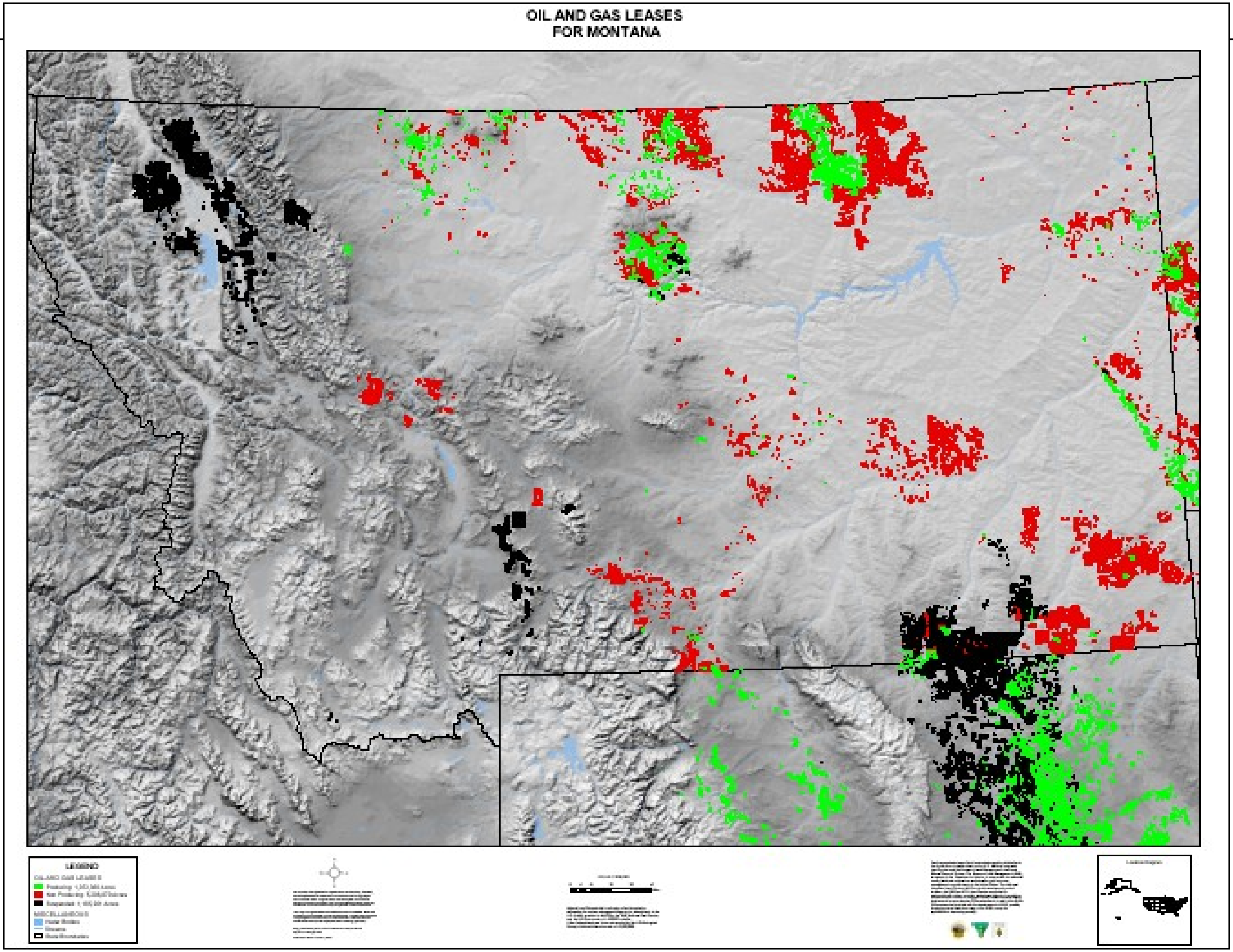
Home | Search | Help | How To Add Data

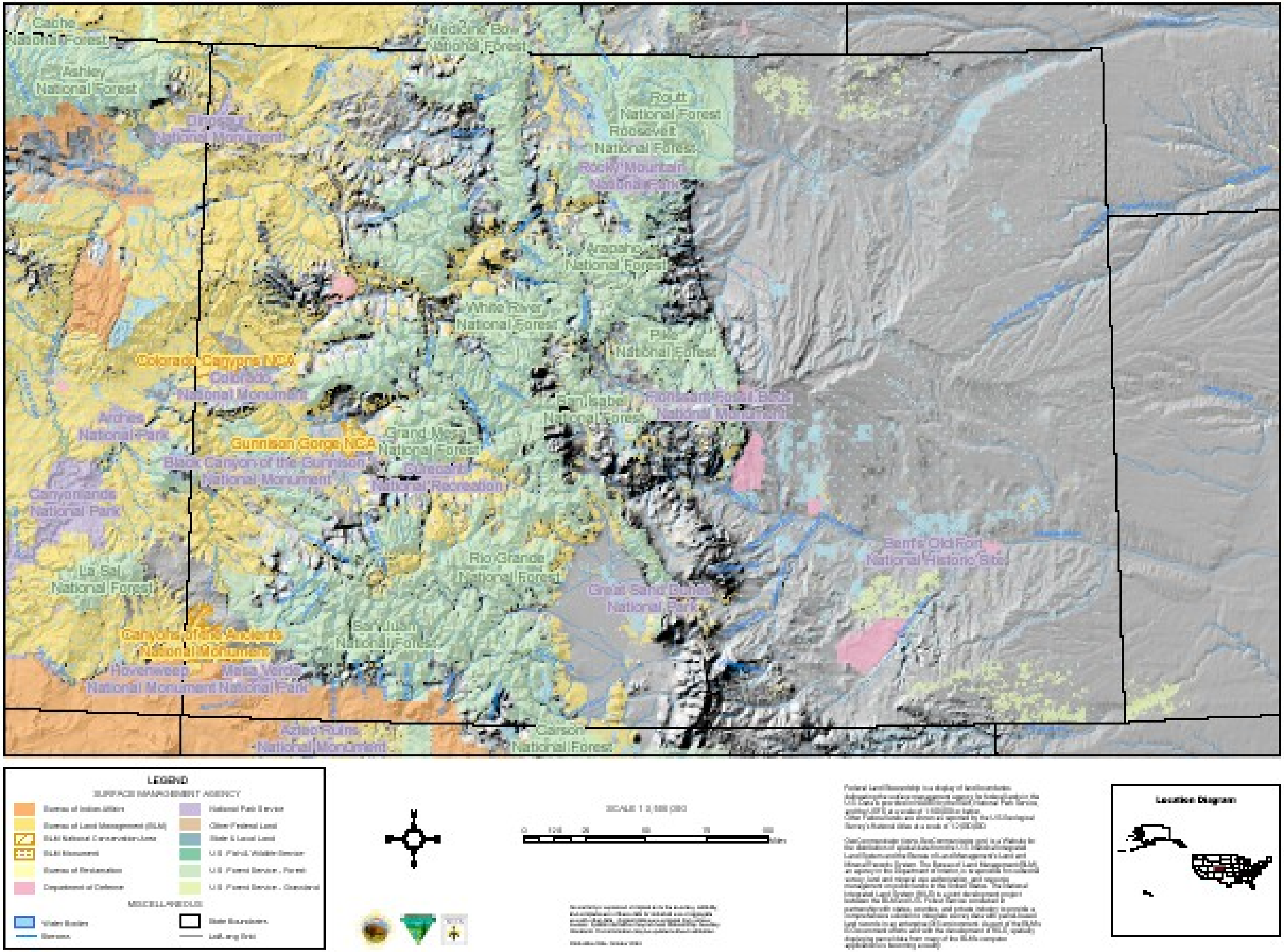
- ⊟ ☑ The_National_Map
  - ☑ Geographic Names (text)
  - ☑ Geographic Names 100K
  - ☐ Hi-Res Ortho Index
  - ☐ County Labels
  - ☐ Counties 100K
  - ☐ State Labels
  - ☑ States 100K
  - ☑ Roads BTS
  - ☑ Stream Names
  - ☑ Stream Network
  - ☐ Waterbody Names
  - ☑ Waterbodies
  - ☐ LANDSAT7
  - ☐ National Land Cover Dataset
  - ☐ National Land Cover Dataset (transparent)
  - ☑ National Elevation Dataset

REFRESH MAP
LEGEND
T32S R1E
T32S R2E
T33S R1W
T33S R1E
T33S R2E
T34S R1W
T34S R1E
T34S R2E
Flat Creek
Middle Creek
Alco Creek
Morine Creek
West Branch Elk Creek
Elk Creek
Spot Creek
Berry Creek
Lost Creek
Lost Creek Lake
Rumley Creek
Rogue River
Brush Creek
Big Butte Creek
Vine Creek
Clark Creek
0.68mi
1.06km

Maps Produced With NILS


OIL AND GAS LEASES
FOR MONTANA
LEGEND
OIL AND GAS LEASES
MISCELLANEOUS

SURFACE MANAGEMENT OF COLORADO


Cache National Forest
Medicine Bow National Forest
Ashley National Forest
Routt National Forest
Roosevelt National Forest
Dinosaur National Monument
Rocky Mountain National Park
Arapaho National Forest
White River National Forest
Pike National Forest
Colorado Canyons NCA
Colorado National Monument
San Isabel National Forest
Florissant Fossil Beds National Monument
Arches National Park
Gunnison Gorge NCA
Grand Mesa National Forest
Black Canyon of the Gunnison National Monument
Curecanti National Recreation
Canyonlands National Park
Bent's Old Fort National Historic Site
Rio Grande National Forest
La Sal National Forest
Great Sand Dunes National Park
San Juan National Forest
Canyons of the Ancients National Monument
Hovenweep National Monument
Mesa Verde National Park
Aztec Ruins National Monument
Carson National Forest
LEGEND
SURFACE MANAGEMENT AGENCY
Bureau of Indian Affairs
Bureau of Land Management (BLM)
BLM National Conservation Area
BLM Monument
Bureau of Reclamation
Department of Defense
National Park Service
Other Federal Land
State & Local Land
U.S. Fish & Wildlife Service
U.S. Forest Service - Forest
U.S. Forest Service - Grassland
MISCELLANEOUS
Water Bodies
Streams
State Boundaries
Lat/Long Grid
SCALE 1:3,500,000
0
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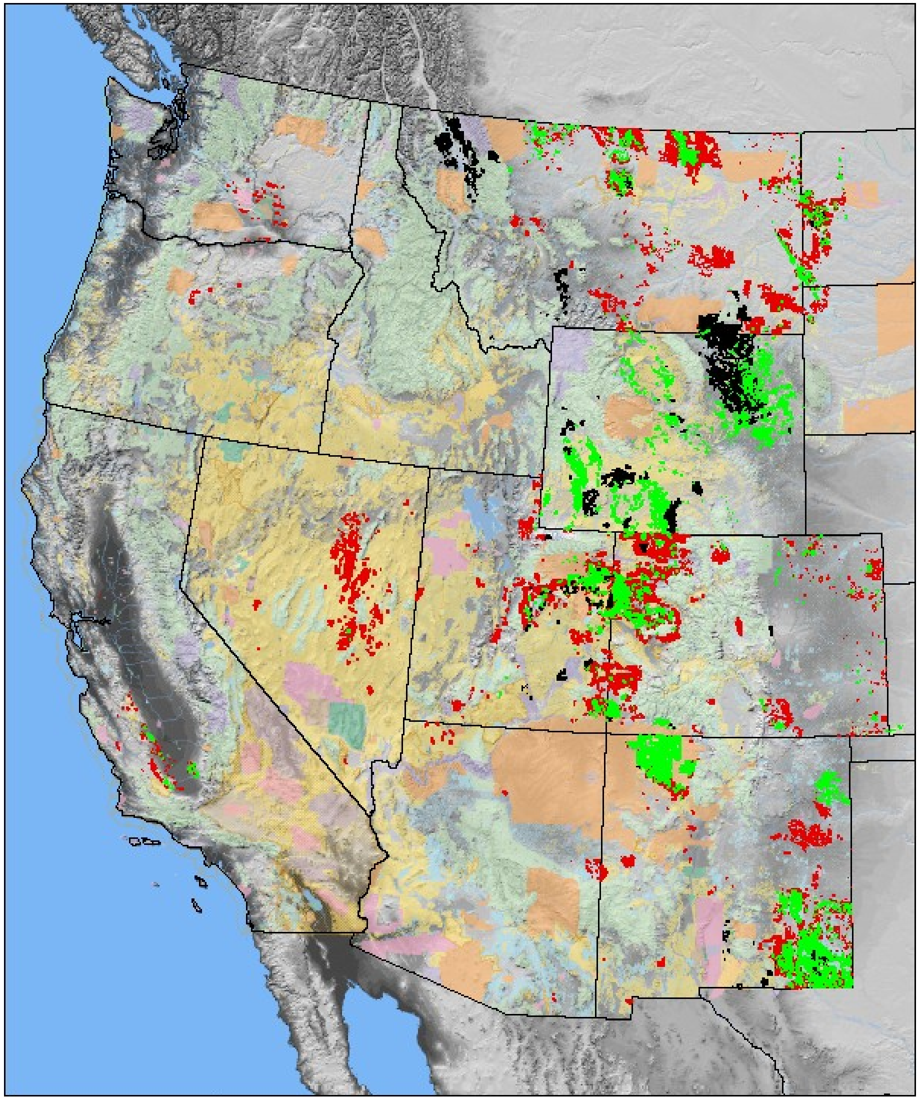
Miles
Location Diagram

SURFACE MANAGEMENT AND OIL AND GAS LEASES FOR THE WESTERN UNITED STATES



LEGEND

SURFACE MANAGEMENT AGENCY

- 🟧 Bureau of Indian Affairs
- 🟨 Bureau of Land Management (BLM)
- ▨ BLM National Conservation Area
- 🟧 BLM Monument
- 🟨 Bureau of Reclamation
- 🟪 Department of Defense
- 🟪 National Park Service
- 🟫 Other Federal Land
- 🟦 State & Local Land
- 🟩 U.S. Fish & Wildlife Service
- 🟩 U.S. Forest Service - Forest
- 🟨 U.S. Forest Service - Grassland

OIL AND GAS LEASES

- 🟩 Producing: [illegible] Acres
- 🟥 Not Producing: [illegible] Acres
- ⬛ Suspended: [illegible] Acres

MISCELLANEOUS

- 🟦 Water Bodies
- — Streams
- ☐ State Boundaries

[illegible]

Publication Date: [illegible]

SCALE 1:[illegible]

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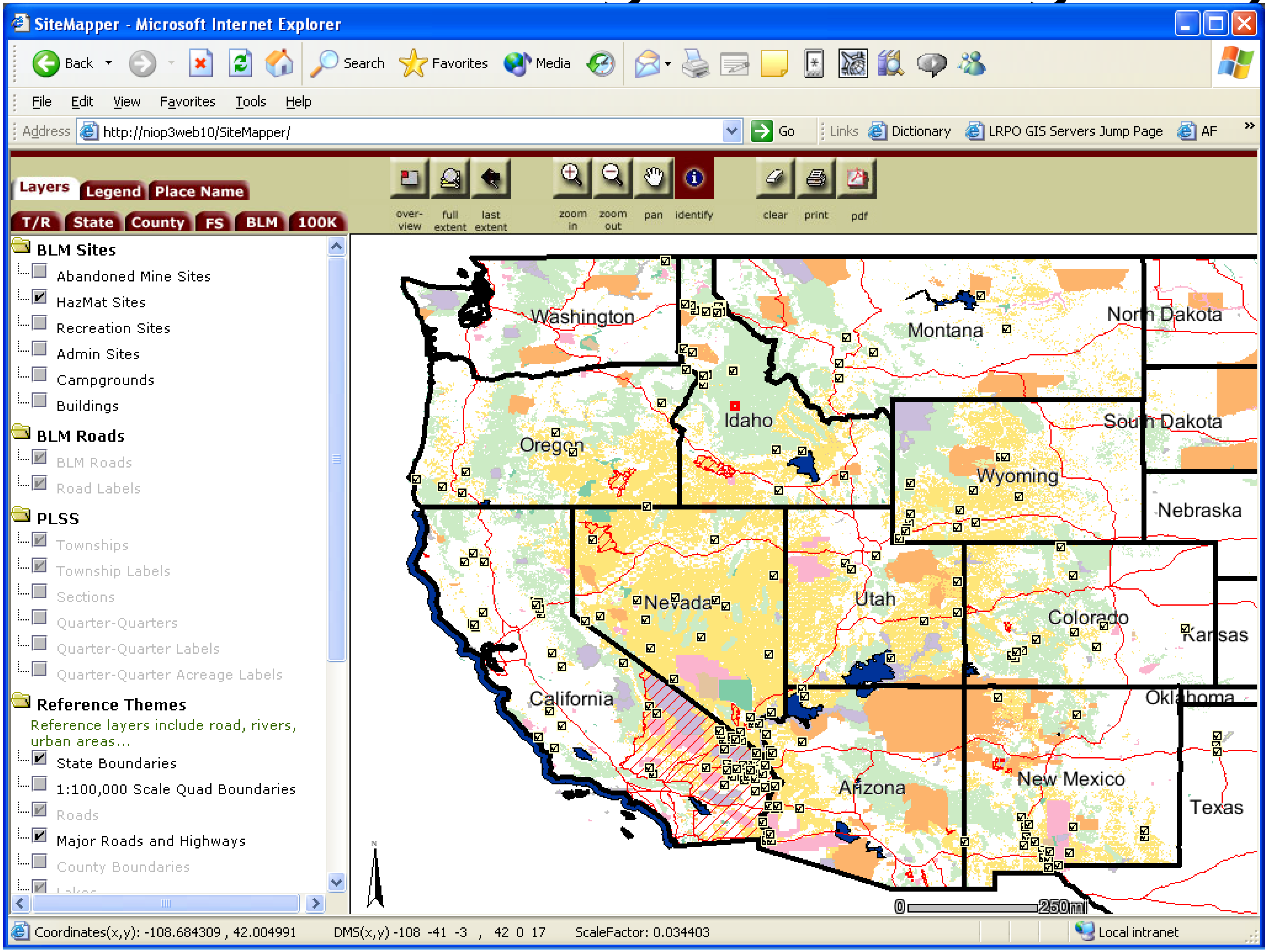
Location Diagram

Additional Reference Themes

Reference Themes
Surface Management Agency


SiteMapper - Microsoft Internet Explorer
Back
Search
Favorites
Media
File
Edit
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LRPO GIS Servers Jump Page
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Legend
Place Name
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County
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over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
print
pdf
Washington
Montana
North Dakota
Idaho
Oregon
South Dakota
Wyoming
Nebraska
Nevada
Utah
Colorado
Kansas
California
Oklahoma
Arizona
New Mexico
Texas
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250mi
Local intranet

Address: http://niop3web10/SiteMapper/

BLM Sites
- ☐ Abandoned Mine Sites
- ☑ HazMat Sites
- ☐ Recreation Sites
- ☐ Admin Sites
- ☐ Campgrounds
- ☐ Buildings

BLM Roads
- ☑ BLM Roads
- ☑ Road Labels

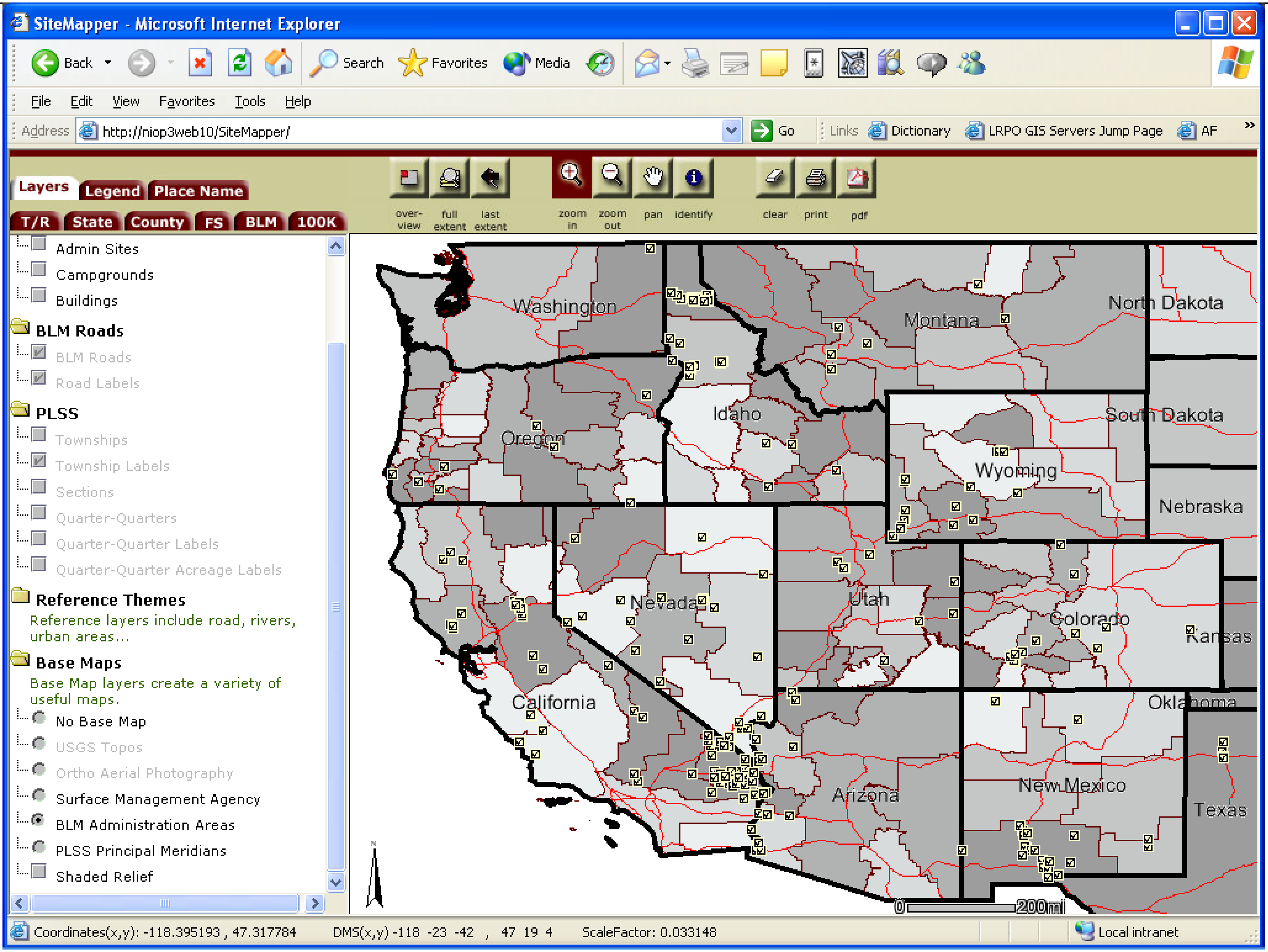
PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

Reference layers include road, rivers, urban areas...
- ☑ State Boundaries
- ☐ 1:100,000 Scale Quad Boundaries
- ☑ Roads
- ☑ Major Roads and Highways
- ☐ County Boundaries

Coordinates(x,y): -108.684309 , 42.004991 DMS(x,y) -108 -41 -3 , 42 0 17 ScaleFactor: 0.034403

BLM Administration Areas



SiteMapper - Microsoft Internet Explorer
Back
Search
Favorites
Media
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Tools
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LRPO GIS Servers Jump Page
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Washington
Montana
North Dakota
Idaho
Oregon
South Dakota
Wyoming
Nebraska
Nevada
Utah
Colorado
Kansas
California
Oklahoma
Arizona
New Mexico
Texas
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200mi
Local intranet

Address: http://niop3web10/SiteMapper/

☐ Admin Sites
☐ Campgrounds
☐ Buildings

BLM Roads
☑ BLM Roads
☑ Road Labels

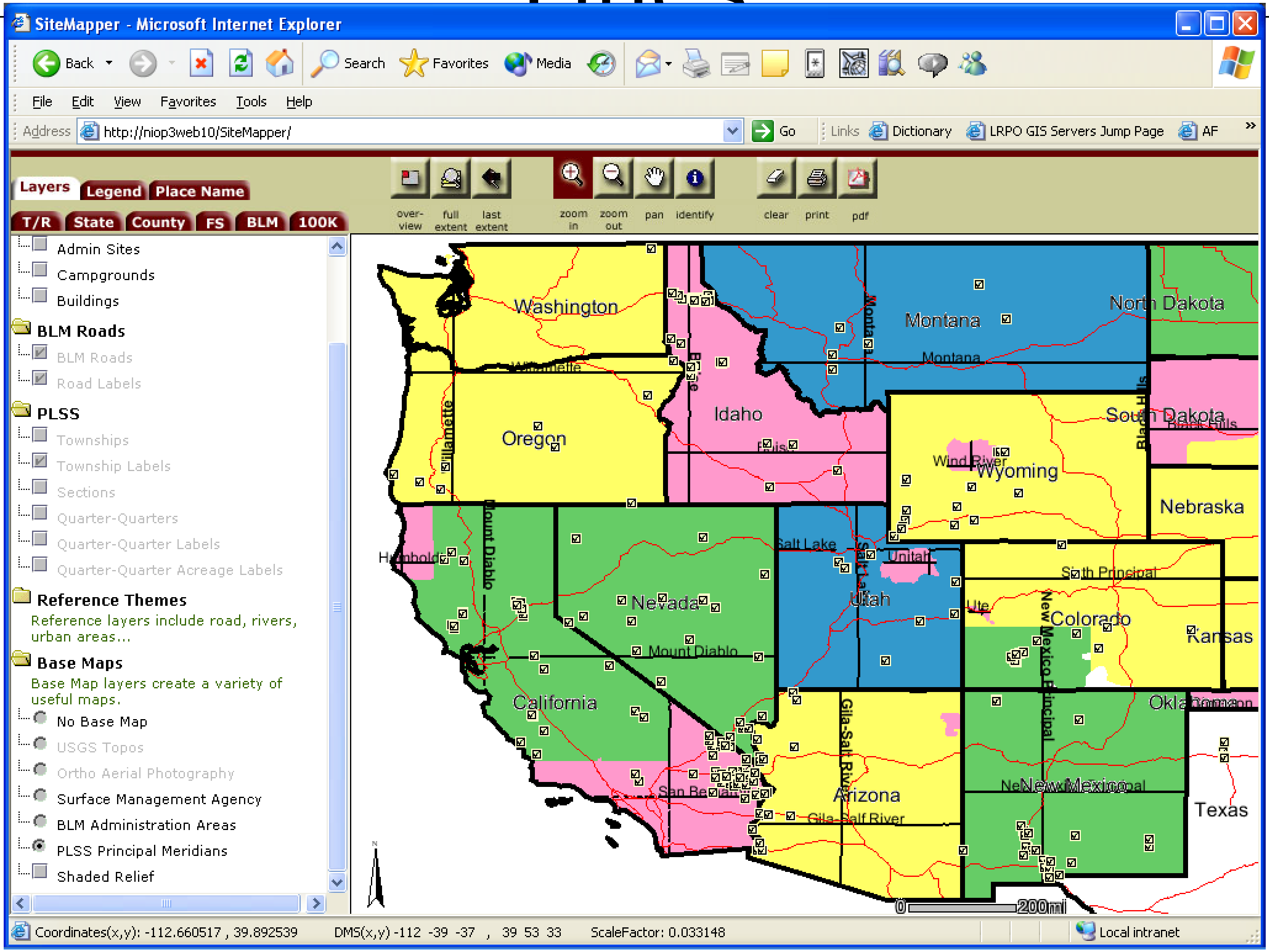
PLSS
☐ Townships
☑ Township Labels
☐ Sections
☐ Quarter-Quarters
☐ Quarter-Quarter Labels
☐ Quarter-Quarter Acreage Labels

Reference Themes
Reference layers include road, rivers, urban areas...

Base Maps
Base Map layers create a variety of useful maps.
○ No Base Map
○ USGS Topos
○ Ortho Aerial Photography
○ Surface Management Agency
● BLM Administration Areas
○ PLSS Principal Meridians
☐ Shaded Relief

Coordinates(x,y): -118.395193 , 47.317784   DMS(x,y) -118 -23 -42 , 47 19 4   ScaleFactor: 0.033148

Principal Meridians and Base Lines


SiteMapper - Microsoft Internet Explorer
Back
Search
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Media
File Edit View Favorites Tools Help
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Links Dictionary LRPO GIS Servers Jump Page AF
Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
print
pdf
Washington
Willamette
Oregon
Idaho
Boise
Montana
North Dakota
South Dakota
Black Hills
Wind River
Wyoming
Nebraska
Humboldt
Mount Diablo
Nevada
Salt Lake
Uintah
Utah
Sixth Principal
Ute
New Mexico Principal
Colorado
Kansas
California
San Bernardino
Gila-Salt River
Arizona
Oklahoma
New Mexico
Texas
0 200mi
N
Local intranet

- ☐ Admin Sites
- ☐ Campgrounds
- ☐ Buildings

BLM Roads

- ☑ BLM Roads
- ☑ Road Labels

PLSS

- ☐ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

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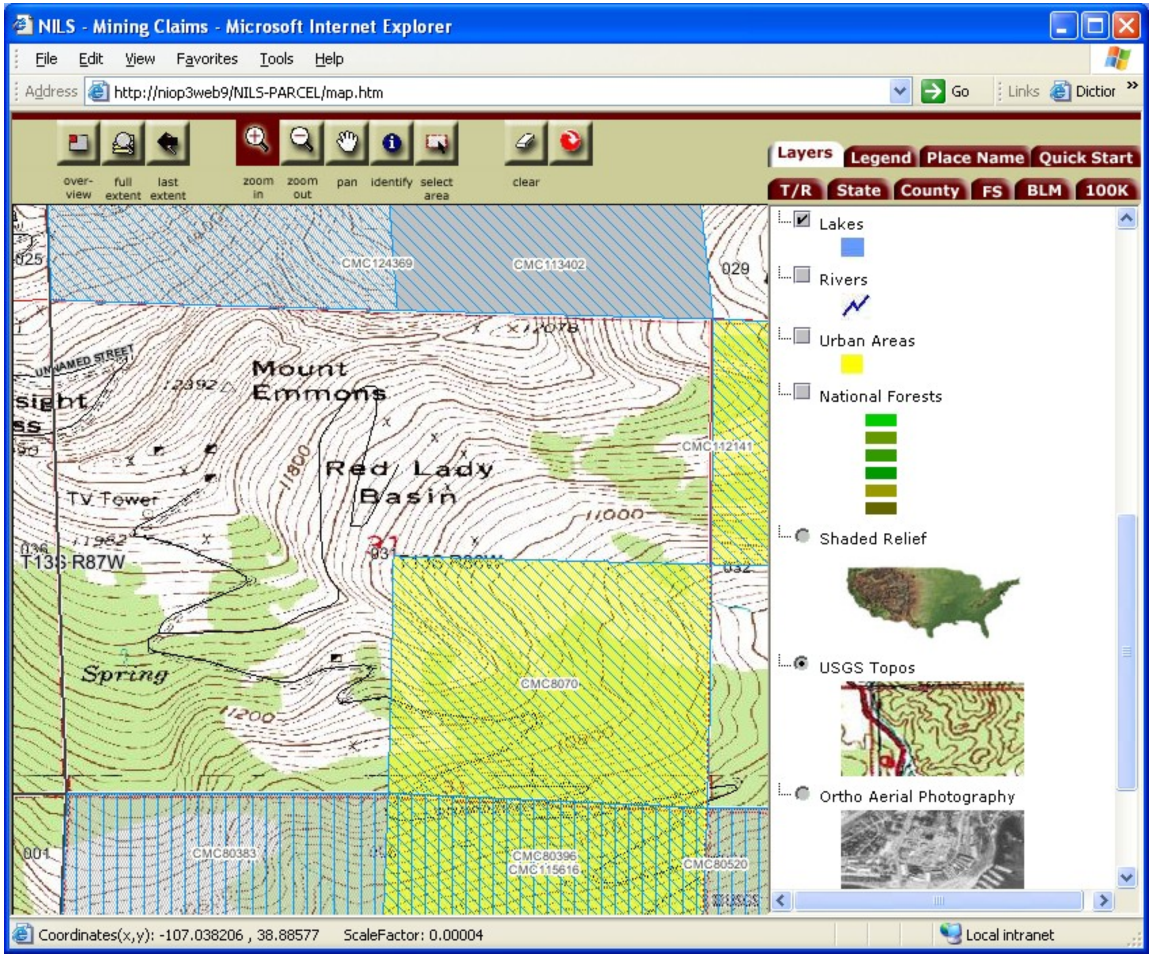
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ● PLSS Principal Meridians
- ☐ Shaded Relief

Coordinates(x,y): -112.660517 , 39.892539 DMS(x,y) -112 -39 -37 , 39 53 33 ScaleFactor: 0.033148

USGS Topographic Maps


NILS - Mining Claims - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Go
Links
Diction
over-view
full extent
last extent
zoom in
zoom out
pan
identify
select area
clear
Layers
Legend
Place Name
Quick Start
T/R
State
County
FS
BLM
100K
CMC124369
CMC113402
025
029
UNNAMED STREET
12392
Mount Emmons
Red Lady Basin
11800
TV Tower
11982
036
T13S R87W
31
031
11000
CMC112141
032
Spring
11200
CMC8070
001
CMC80383
CMC80396
CMC115616
CMC80520
USGS
Local intranet

Address http://niop3web9/NILS-PARCEL/map.htm

☑ Lakes

☐ Rivers

☐ Urban Areas

☐ National Forests

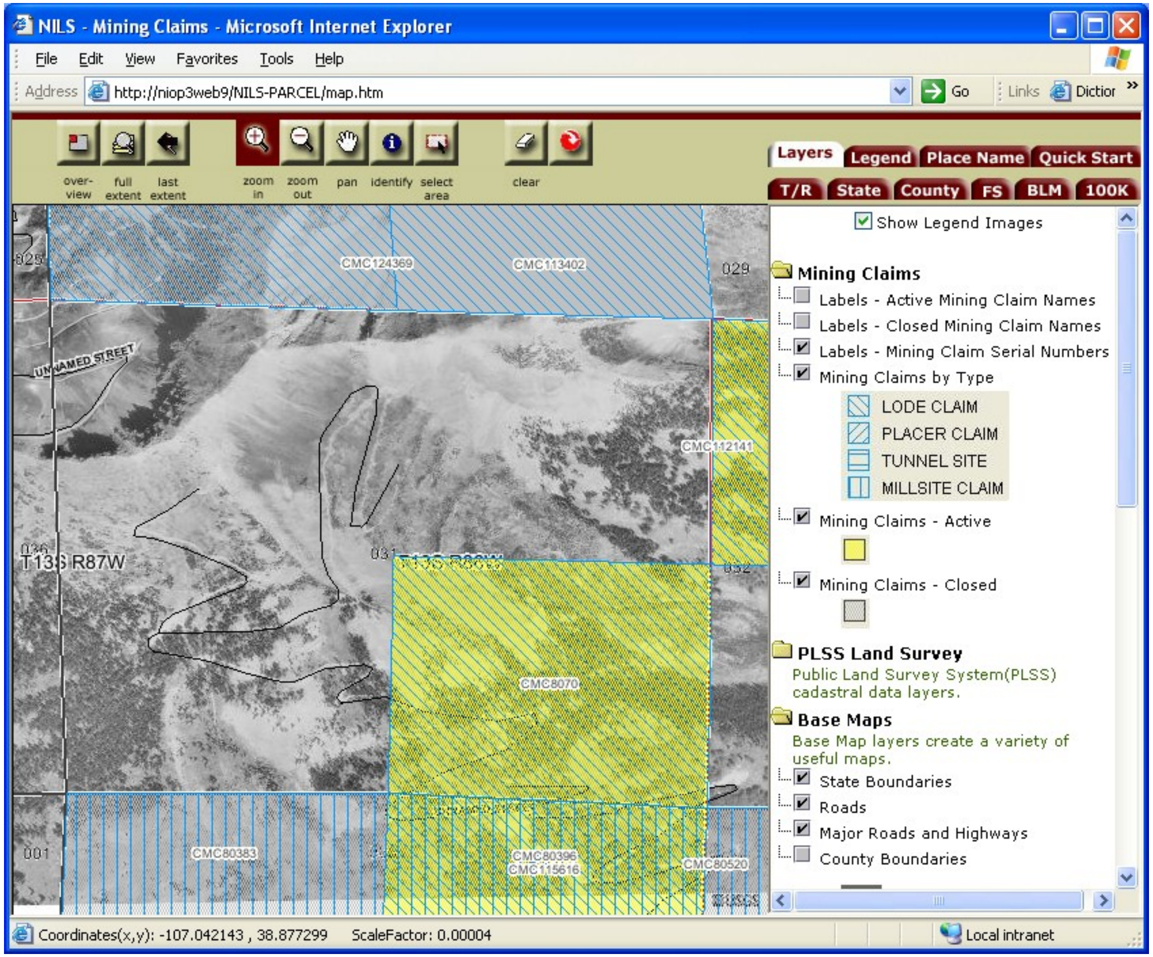
○ Shaded Relief

● USGS Topos

○ Ortho Aerial Photography

Coordinates(x,y): -107.038206 , 38.88577 ScaleFactor: 0.00004

Ortho Aerial Photography


NILS - Mining Claims - Microsoft Internet Explorer
File
Edit
View
Favorites
Tools
Help
Address
Go
Links
Dictior
over-view
full extent
last extent
zoom in
zoom out
pan
identify
select area
clear
Layers
Legend
Place Name
Quick Start
T/R
State
County
FS
BLM
100K
025
029
UNNAMED STREET
CMC124369
CMC113402
CMC112141
T13S R87W
031
032
CMC8070
CMC80383
CMC80396
CMC115616
CMC80520
001
Local intranet

Address: http://niop3web9/NILS-PARCEL/map.htm

☑ Show Legend Images

Mining Claims

- ☐ Labels - Active Mining Claim Names
- ☐ Labels - Closed Mining Claim Names
- ☑ Labels - Mining Claim Serial Numbers
- ☑ Mining Claims by Type
  - ▧ LODE CLAIM
  - ▨ PLACER CLAIM
  - ▤ TUNNEL SITE
  - ▥ MILLSITE CLAIM
- ☑ Mining Claims - Active
  - 🟨
- ☑ Mining Claims - Closed
  - ⬜

PLSS Land Survey

Public Land Survey System(PLSS) cadastral data layers.

Base Maps

Base Map layers create a variety of useful maps.

- ☑ State Boundaries
- ☑ Roads
- ☑ Major Roads and Highways
- ☐ County Boundaries

Coordinates(x,y): -107.042143 , 38.877299 ScaleFactor: 0.00004

Spatially Enabling other business applications

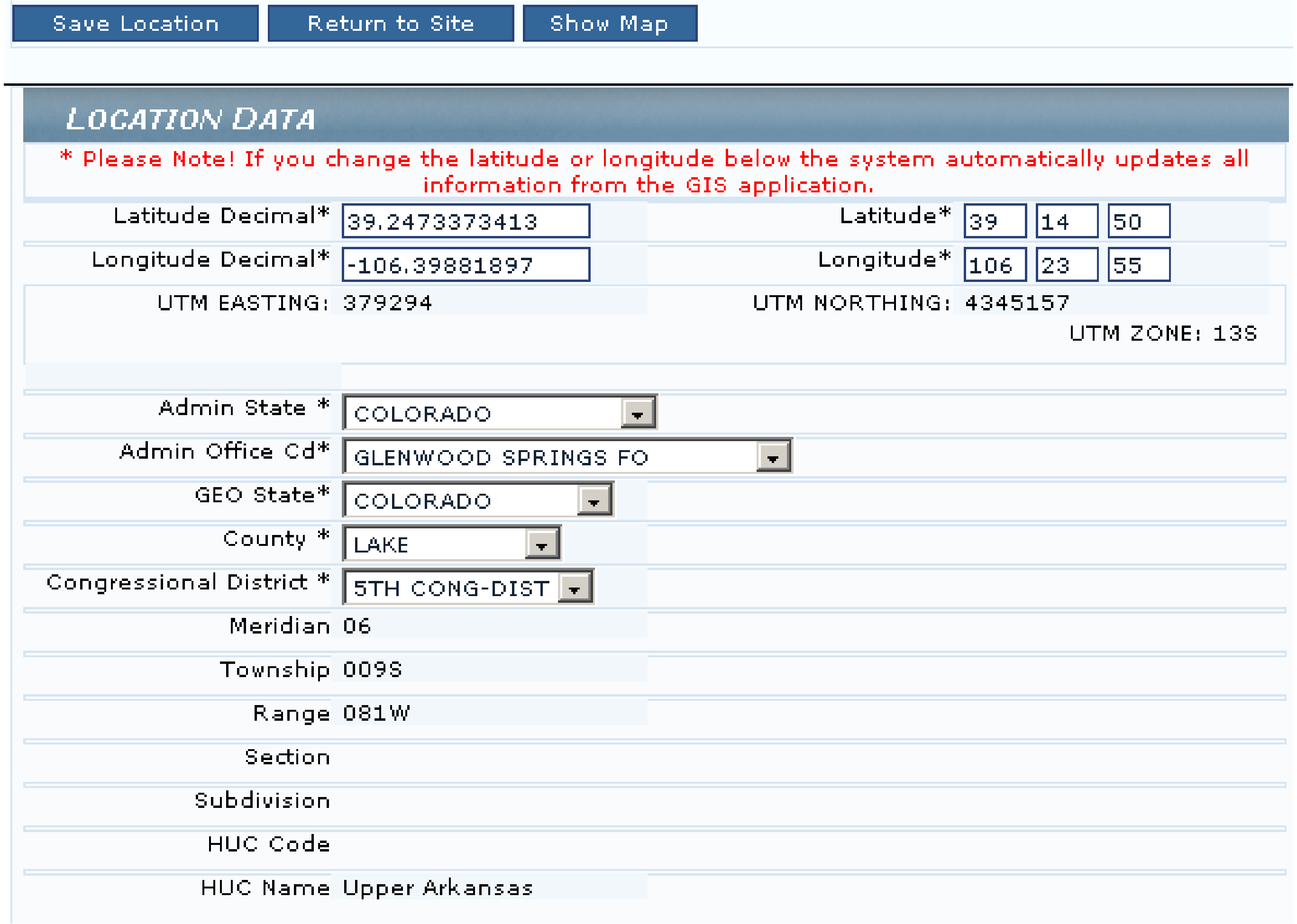
Protection and Response Information System

ABANDONED MINES MODULE

SITE CLEANUP MODULE

ABANDONED MINES MODULE

Information returned from GIS by Latitude/Longitude



LOCATION DATA

* Please Note! If you change the latitude or longitude below the system automatically updates all information from the GIS application.

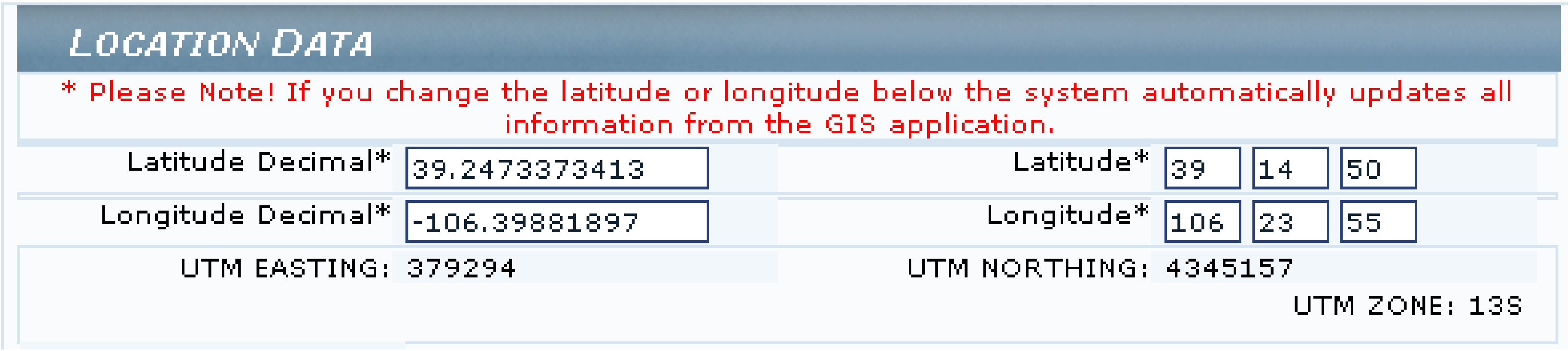
Latitude Decimal*	39.2473373413	Latitude*	39 14 50
Longitude Decimal*	-106.39881897	Longitude*	106 23 55
UTM EASTING:	379294	UTM NORTHING:	4345157
		UTM ZONE:	13S

Admin State *	COLORADO
Admin Office Cd*	GLENWOOD SPRINGS FO
GEO State*	COLORADO
County *	LAKE
Congressional District *	5TH CONG-DIST
Meridian	06
Township	009S
Range	081W
Section	
Subdivision	
HUC Code	
HUC Name	Upper Arkansas

Latitude/Longitude

Enter either decimal or degrees

Displays UTM



LOCATION DATA

* Please Note! If you change the latitude or longitude below the system automatically updates all information from the GIS application.

Latitude Decimal* 39.2473373413

Latitude* 39 14 50

Longitude Decimal* -106.39881897

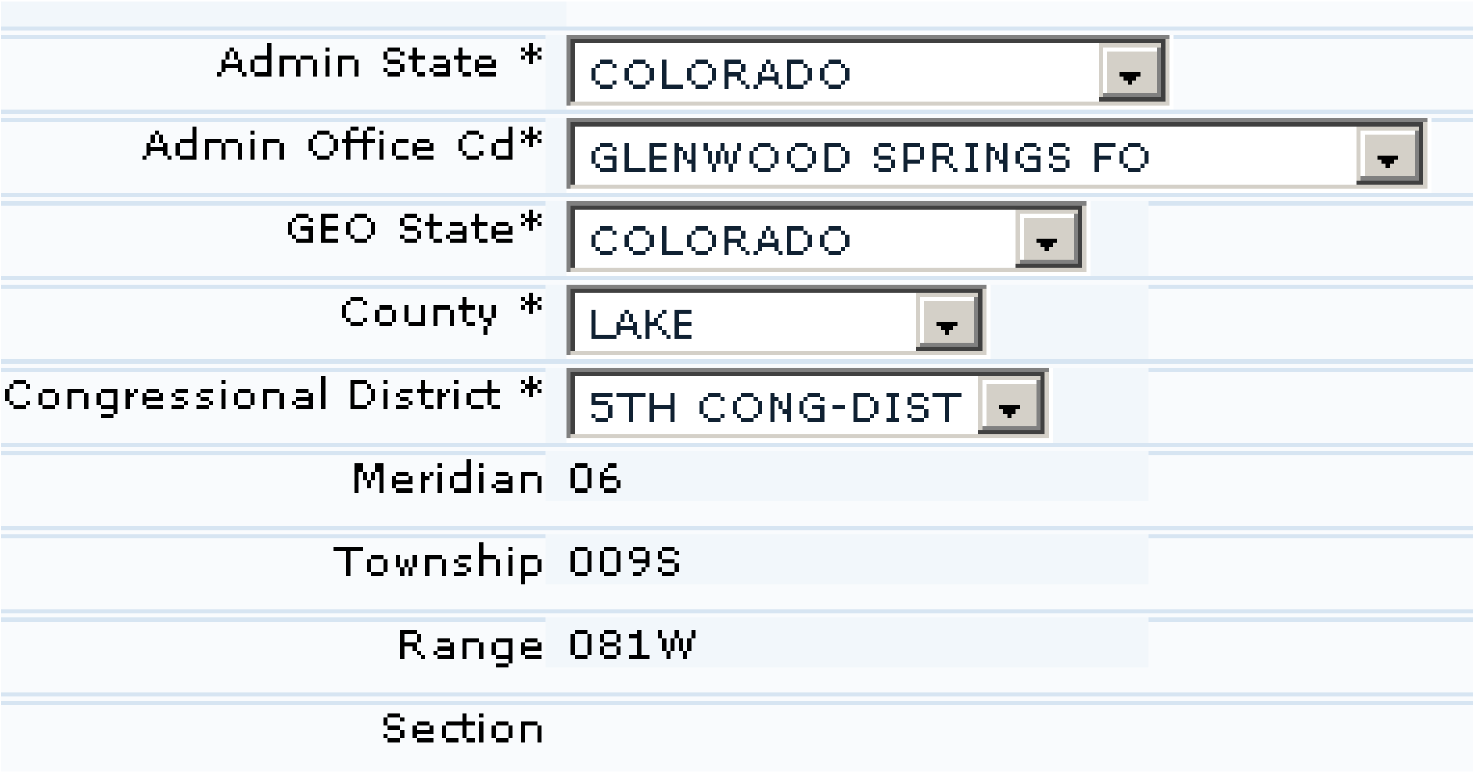
Longitude* 106 23 55

UTM EASTING: 379294

UTM NORTHING: 4345157

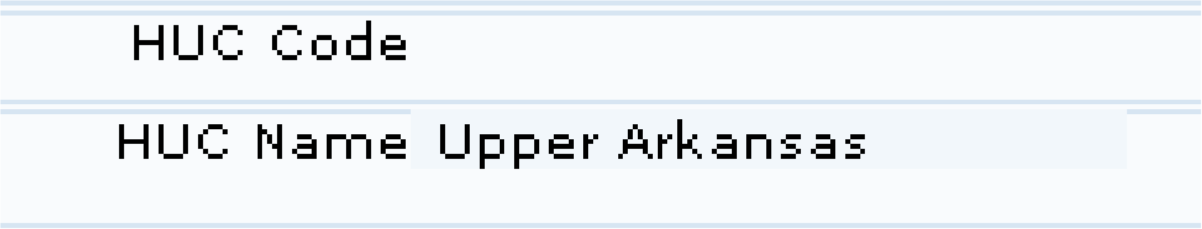
UTM ZONE: 13S

Location Data



Admin State *	COLORADO
Admin Office Cd*	GLENWOOD SPRINGS FO
GEO State*	COLORADO
County *	LAKE
Congressional District *	5TH CONG-DIST
Meridian	06
Township	009S
Range	081W
Section	

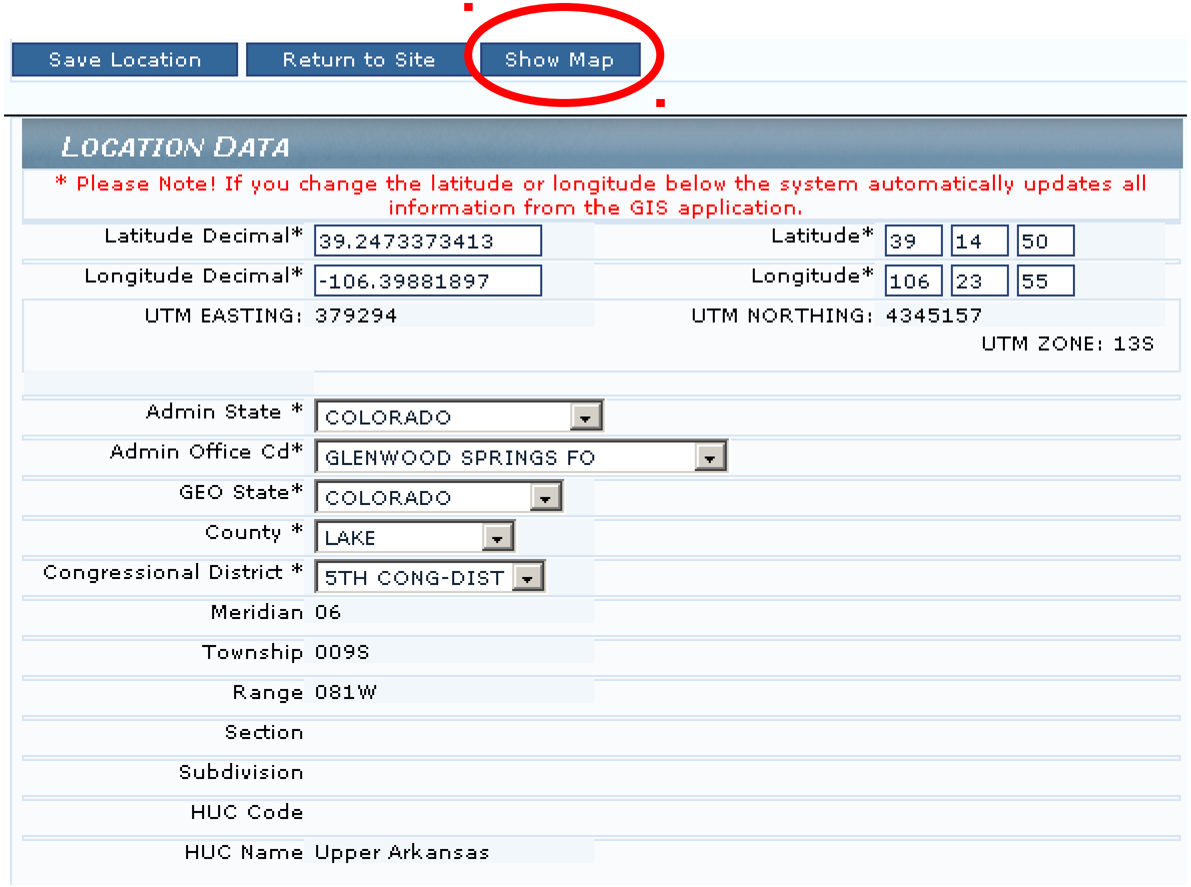
Watershed



HUC Code	
HUC Name	Upper Arkansas

Abandoned Mine Module

Click on Show Map



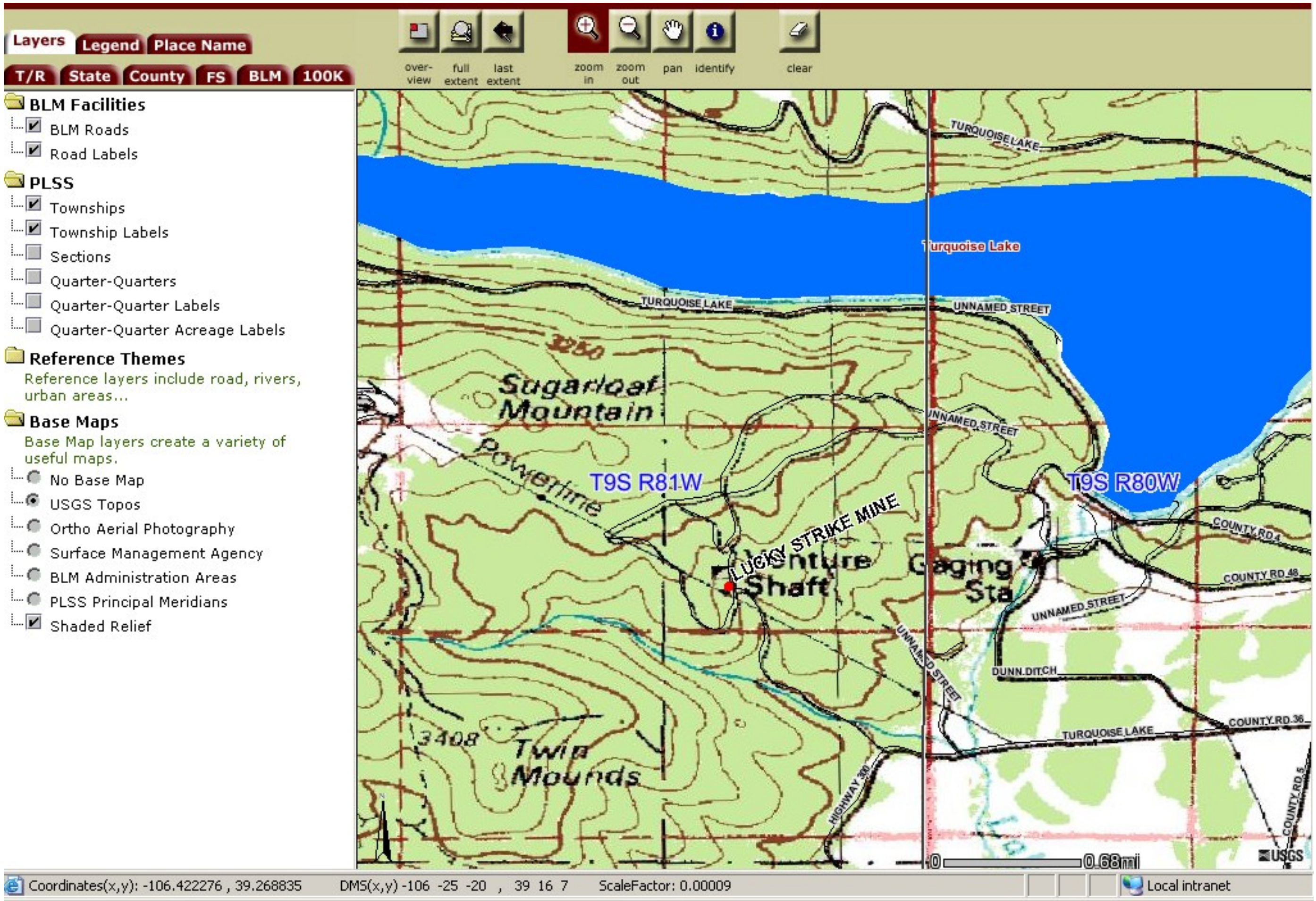
LOCATION DATA

* Please Note! If you change the latitude or longitude below the system automatically updates all information from the GIS application.

Latitude Decimal*	39.2473373413	Latitude*	39 14 50
Longitude Decimal*	-106.39881897	Longitude*	106 23 55
UTM EASTING:	379294	UTM NORTHING:	4345157
		UTM ZONE:	13S

Admin State *	COLORADO
Admin Office Cd*	GLENWOOD SPRINGS FO
GEO State*	COLORADO
County *	LAKE
Congressional District *	5TH CONG-DIST
Meridian	06
Township	009S
Range	081W
Section	
Subdivision	
HUC Code	
HUC Name	Upper Arkansas

Show Map


Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
Turquoise Lake
TURQUOISE LAKE
UNNAMED STREET
3250
Sugarloaf Mountain
Powerline
T9S R81W
T9S R80W
LUCKY STRIKE MINE
Venture Shaft
Gaging Sta
COUNTY RD 4
COUNTY RD 48
DUNN DITCH
COUNTY RD 36
HIGHWAY 300
COUNTY RD 5
3408
Twin Mounds
0
0.68mi
USGS

BLM Facilities
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

Reference layers include road, rivers, urban areas...

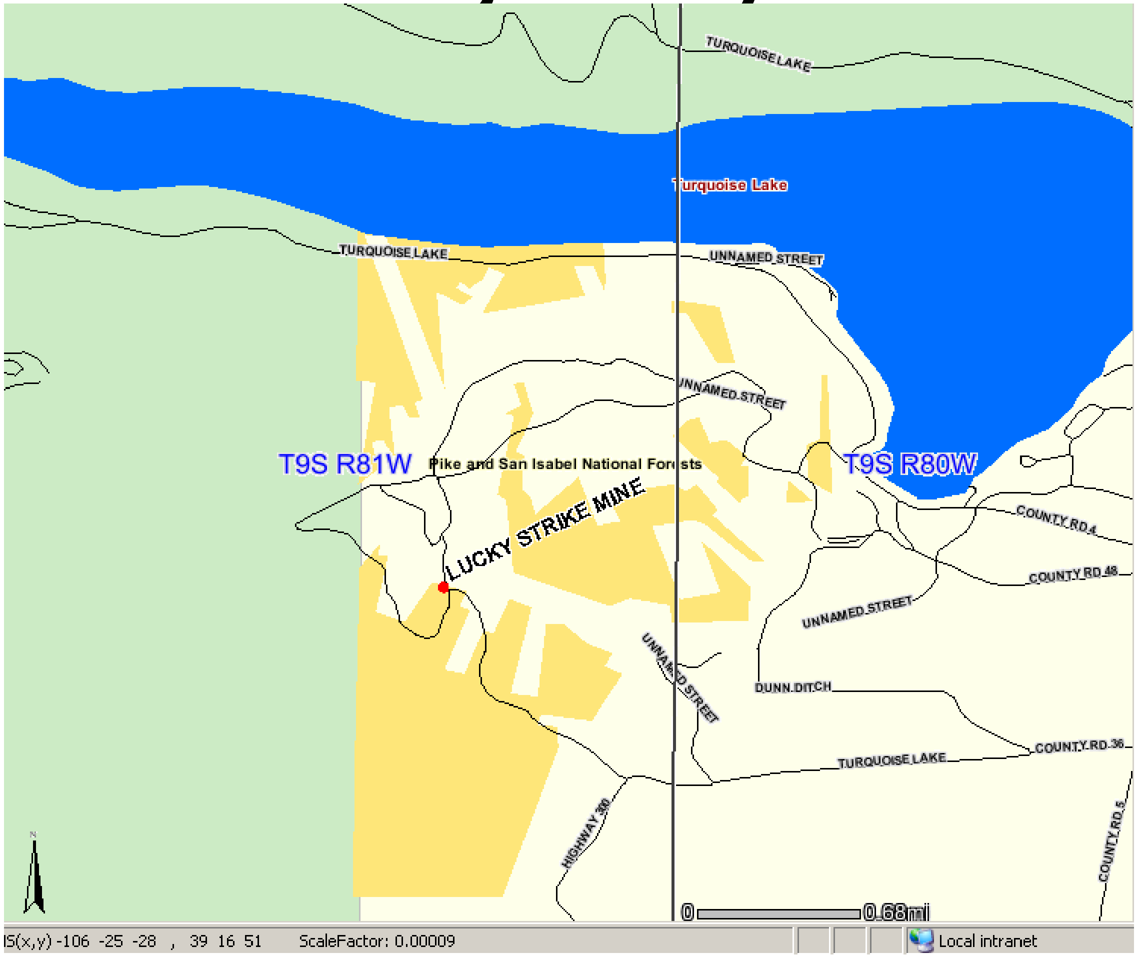
Base Maps

Base Map layers create a variety of useful maps.

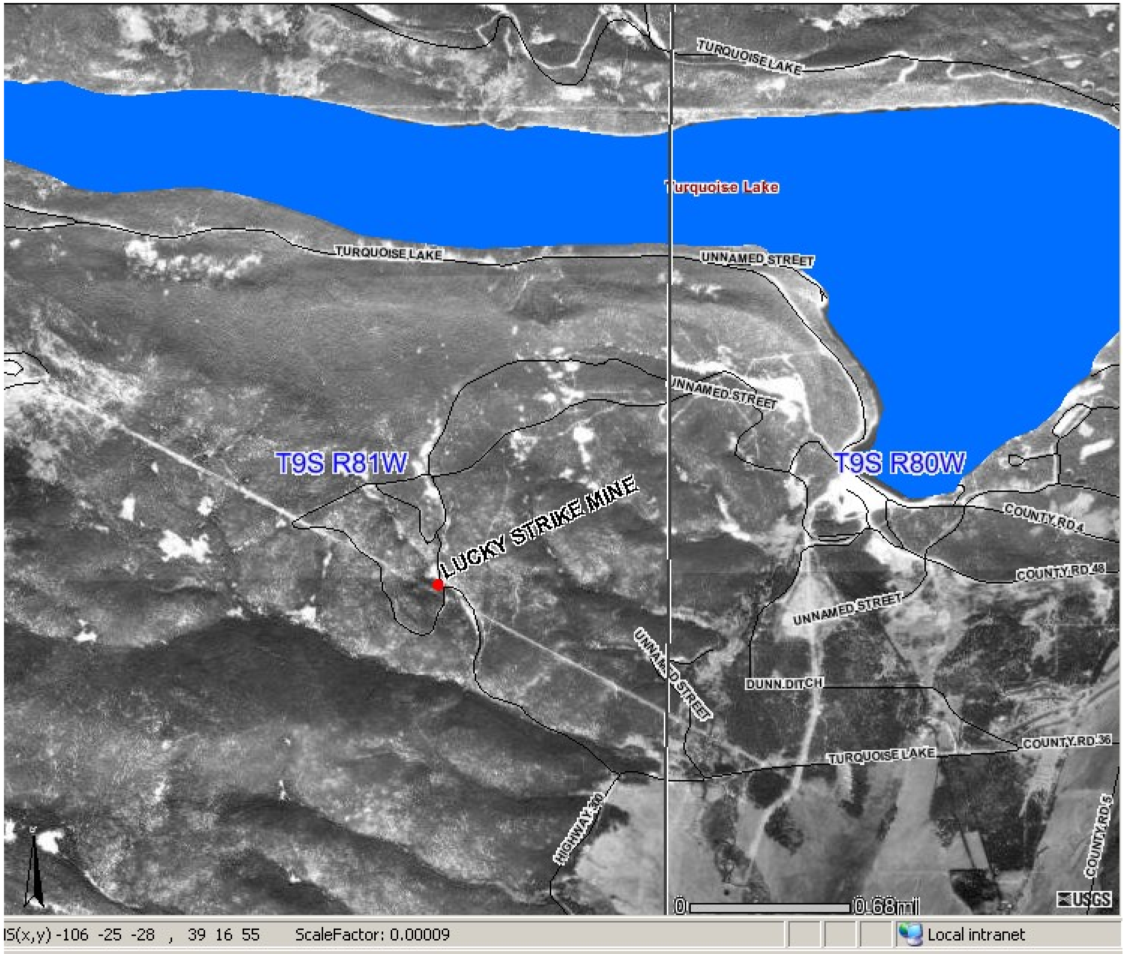
- ○ No Base Map
- ● USGS Topos
- ○ Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

Coordinates(x,y): -106.422276 , 39.268835 DMS(x,y) -106 -25 -20 , 39 16 7 ScaleFactor: 0.00009 Local intranet

Surface Management Agency


TURQUOISE LAKE
Turquoise Lake
TURQUOISE LAKE
UNNAMED STREET
UNNAMED STREET
T9S R81W
Pike and San Isabel National Forests
T9S R80W
LUCKY STRIKE MINE
COUNTY RD 4
COUNTY RD 48
UNNAMED STREET
UNNAMED STREET
DUNN DITCH
TURQUOISE LAKE
COUNTY RD 36
HIGHWAY 300
COUNTY RD 5
N
0
0.68mi
IS(x,y) -106 -25 -28 , 39 16 51
ScaleFactor: 0.00009
Local intranet

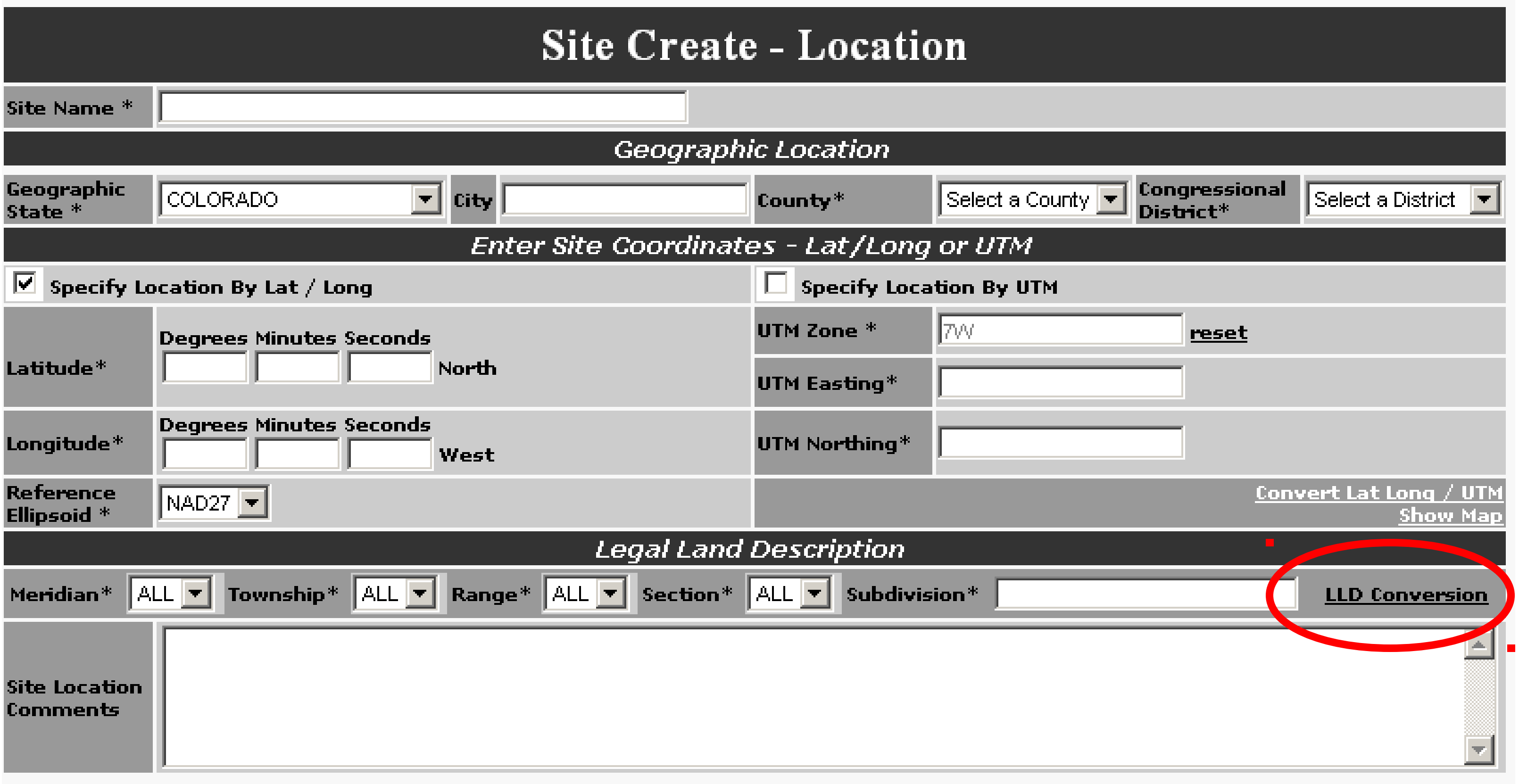
Ortho Aerial Photography


TURQUOISE LAKE
Turquoise Lake
TURQUOISE LAKE
UNNAMED STREET
UNNAMED STREET
T9S R81W
T9S R80W
LUCKY STRIKE MINE
COUNTY RD 4
COUNTY RD 48
UNNAMED STREET
UNNAMED STREET
DUNN DITCH
TURQUOISE LAKE
COUNTY RD 36
HIGHWAY 300
COUNTY RD 5
0
0.68mi
USGS
Local intranet

IS(x,y) -106 -25 -28 , 39 16 55 ScaleFactor: 0.00009

SITE CLEANUP MODULE

Find Latitude/Longitude



Site Create - Location

Site Name *	

Geographic Location

Geographic State *	COLORADO	City		County*	Select a County	Congressional District*	Select a District

Enter Site Coordinates - Lat/Long or UTM

☑ Specify Location By Lat / Long

☐ Specify Location By UTM

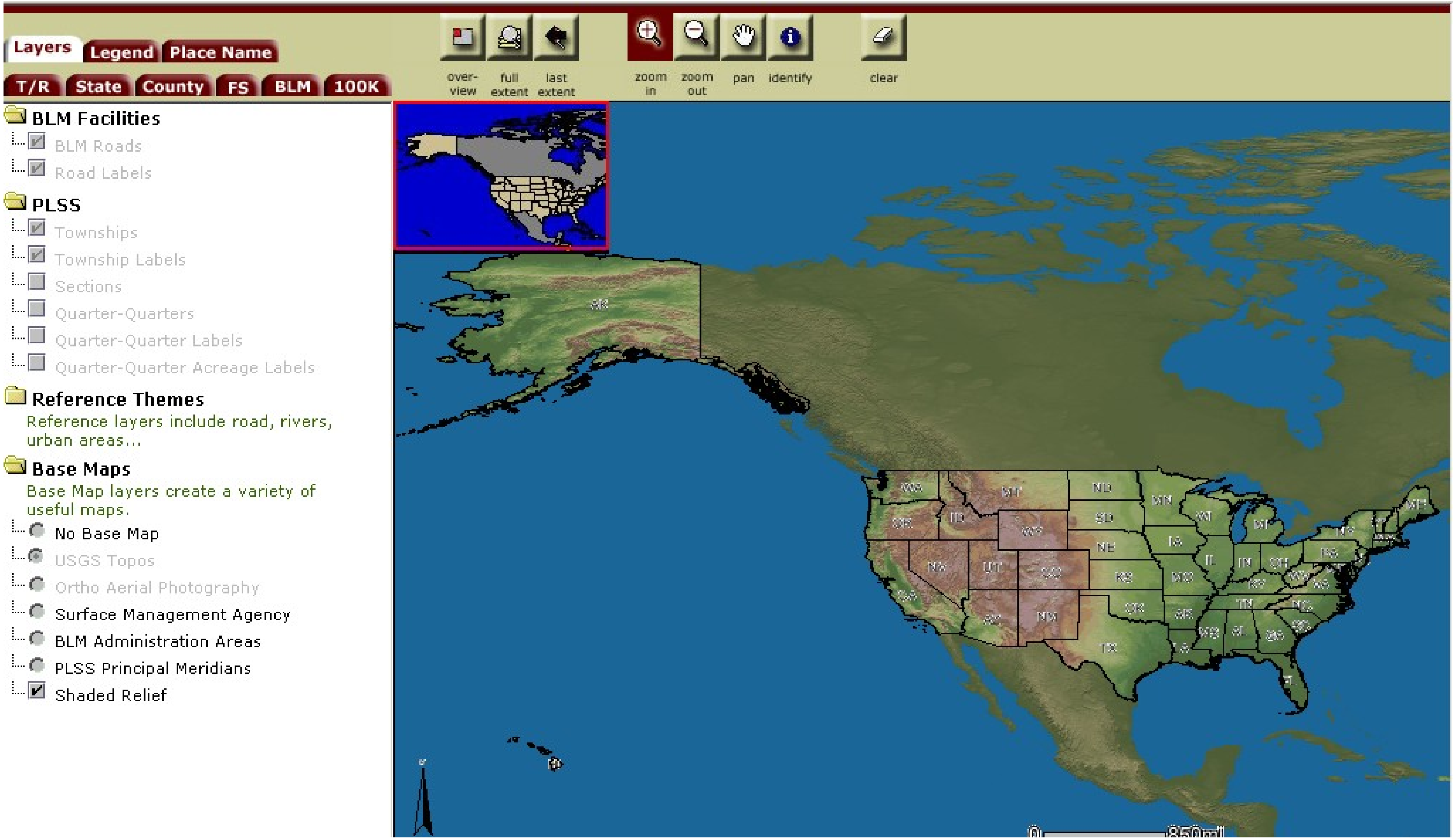
Latitude*	Degrees Minutes Seconds North	UTM Zone *	7W reset
		UTM Easting*	
Longitude*	Degrees Minutes Seconds West	UTM Northing*	
Reference Ellipsoid *	NAD27		Convert Lat Long / UTM Show Map

Legal Land Description

Meridian*	ALL	Township*	ALL	Range*	ALL	Section*	ALL	Subdivision*		LLD Conversion

Site Location Comments	

Find Latitude/Longitude


Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
AK
0
850mi

BLM Facilities
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

Reference layers include road, rivers, urban areas...

Base Maps

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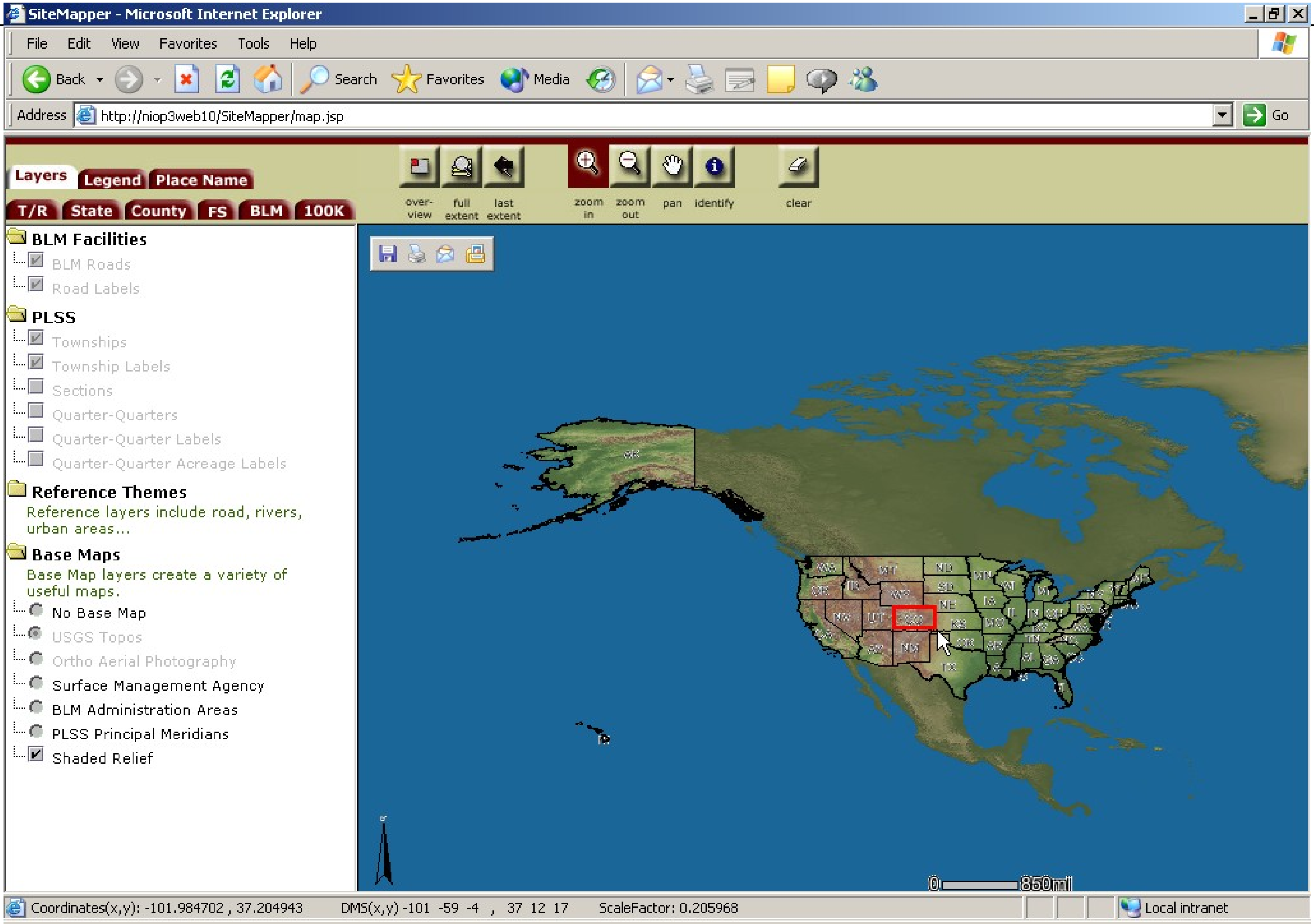
- ○ No Base Map
- ● USGS Topos
- ○ Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

Narrow Selection


SiteMapper - Microsoft Internet Explorer
File
Edit
View
Favorites
Tools
Help
Back
Search
Favorites
Media
Address
Go
Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
0
850mi

Address: http://niop3web10/SiteMapper/map.jsp

BLM Facilities
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

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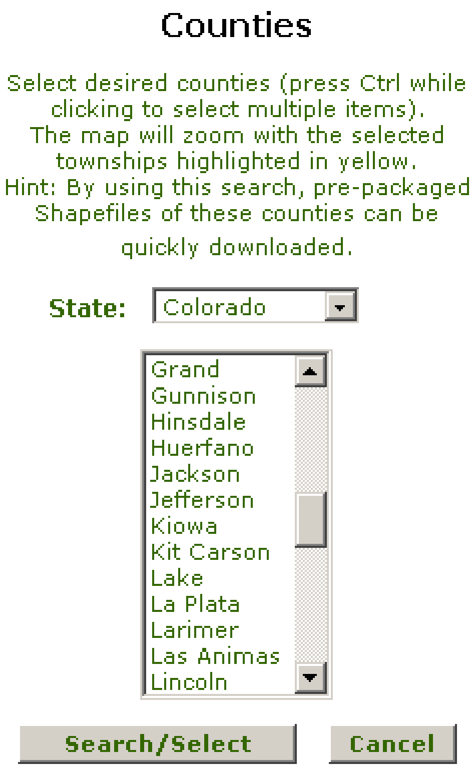
- ○ Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

Coordinates(x,y): -101.984702 , 37.204943 DMS(x,y) -101 -59 -4 , 37 12 17 ScaleFactor: 0.205968 Local intranet

Search by County

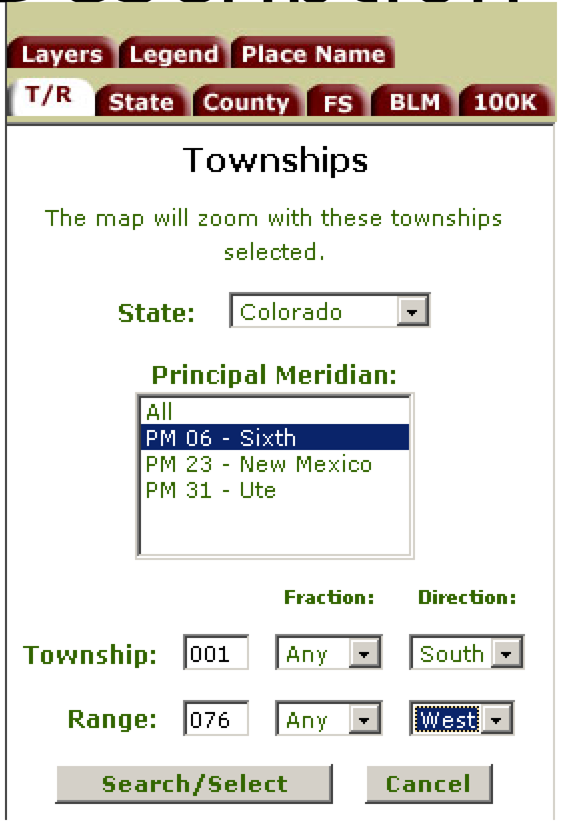

Grand
Gunnison
Hinsdale
Huerfano
Jackson
Jefferson
Kiowa
Kit Carson
Lake
La Plata
Larimer
Las Animas
Lincoln
Search/Select
Cancel

Counties

Select desired counties (press Ctrl while clicking to select multiple items).
The map will zoom with the selected townships highlighted in yellow.
Hint: By using this search, pre-packaged Shapefiles of these counties can be quickly downloaded.

State: Colorado

Search by Legal Description


Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
All
PM 06 - Sixth
PM 23 - New Mexico
PM 31 - Ute
Search/Select
Cancel

Townships

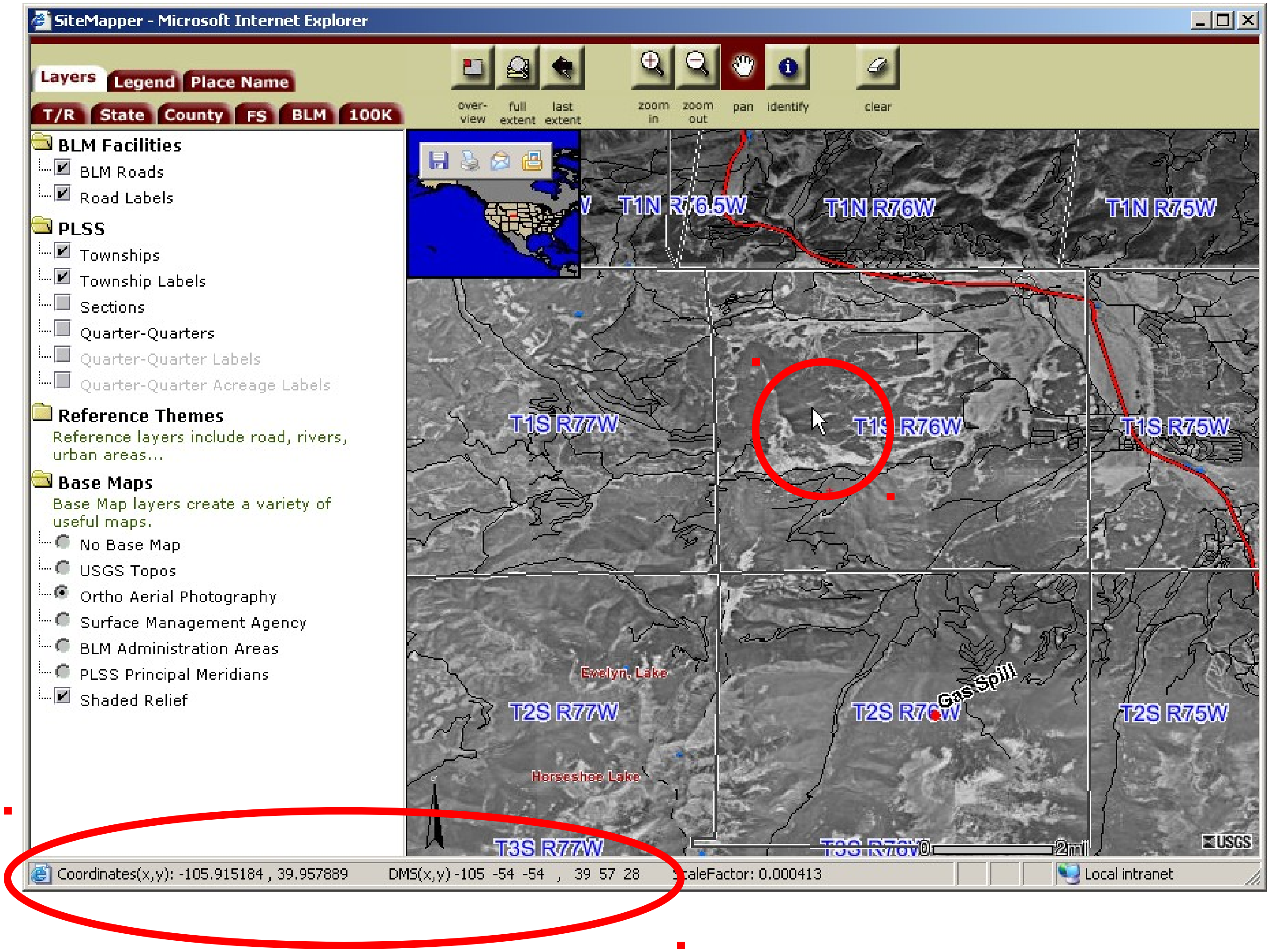
The map will zoom with these townships selected.

State: Colorado

Principal Meridian: PM 06 - Sixth

		Fraction:	Direction:
Township:	001	Any	South
Range:	076	Any	West

Latitude/Longitude



SiteMapper - Microsoft Internet Explorer
Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
T1N R76.5W
T1N R76W
T1N R75W
T1S R77W
T1S R76W
T1S R75W
Evelyn Lake
Gas Spill
T2S R77W
T2S R76W
T2S R75W
Horseshoe Lake
T3S R77W
T3S R76W
0
2mi
USGS
Local intranet

BLM Facilities

- ☑ BLM Roads
- ☑ Road Labels

PLSS

- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

Reference layers include road, rivers, urban areas...

Base Maps

Base Map layers create a variety of useful maps.

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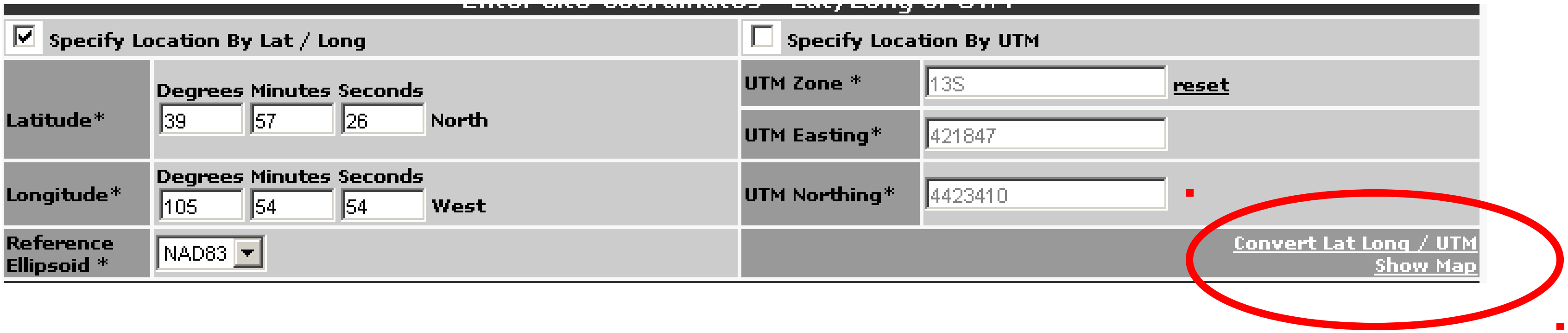
- ○ USGS Topos
- ● Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

Coordinates(x,y): -105.915184 , 39.957889 DMS(x,y) -105 -54 -54 , 39 57 28 ScaleFactor: 0.000413

Enter Location



☑ Specify Location By Lat / Long

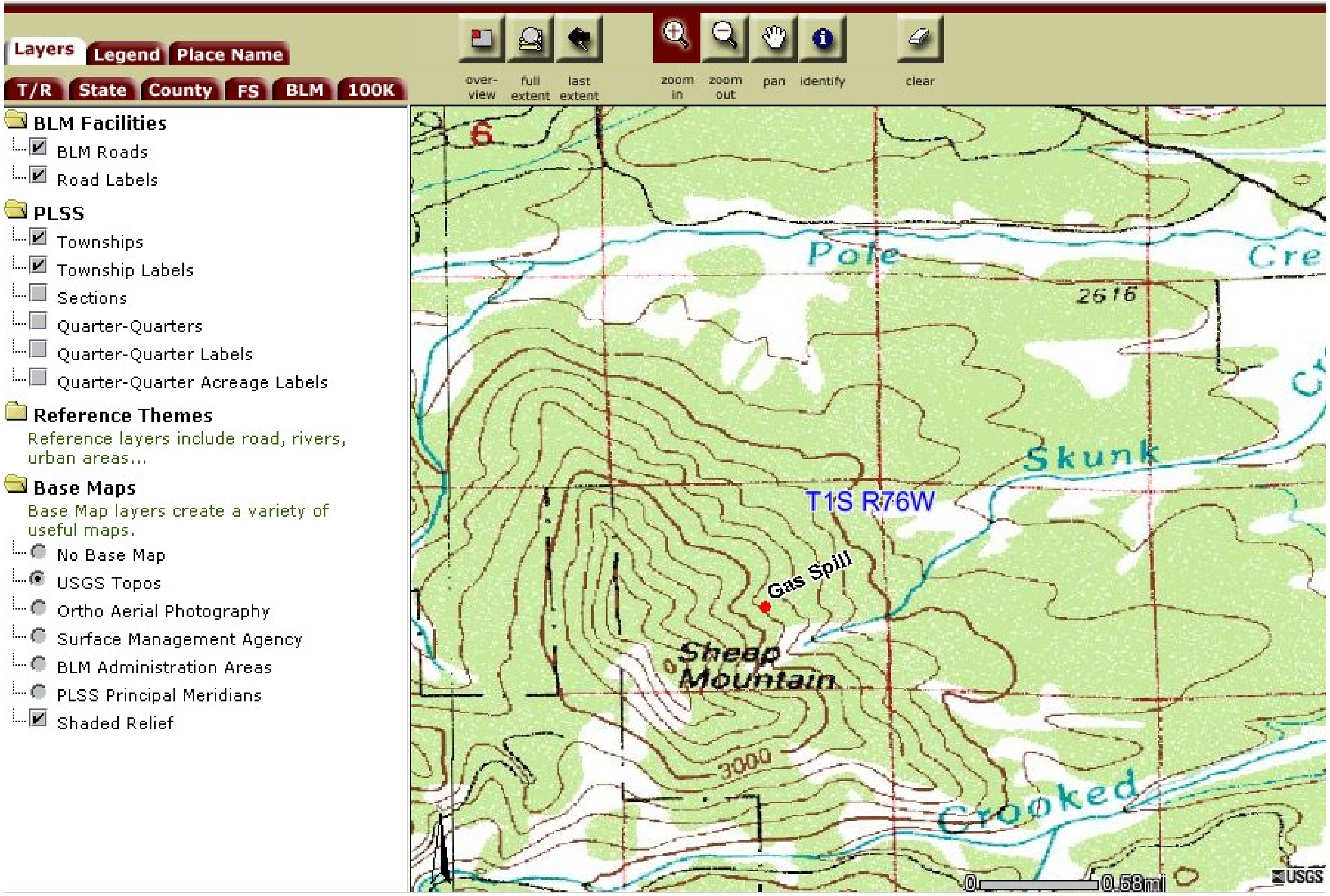
Latitude*	Degrees	Minutes	Seconds	
	39	57	26	North
Longitude*	Degrees	Minutes	Seconds	
	105	54	54	West
Reference Ellipsoid *	NAD83			

☐ Specify Location By UTM

UTM Zone *	13S	reset
UTM Easting*	421847	
UTM Northing*	4423410	

Convert Lat Long / UTM
Show Map

Show Map


Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
6
Pole
Cre
2616
Cr
Skunk
T1S R76W
Gas Spill
Sheap Mountain
3000
Crooked
0
0.58mi
USGS

BLM Facilities
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

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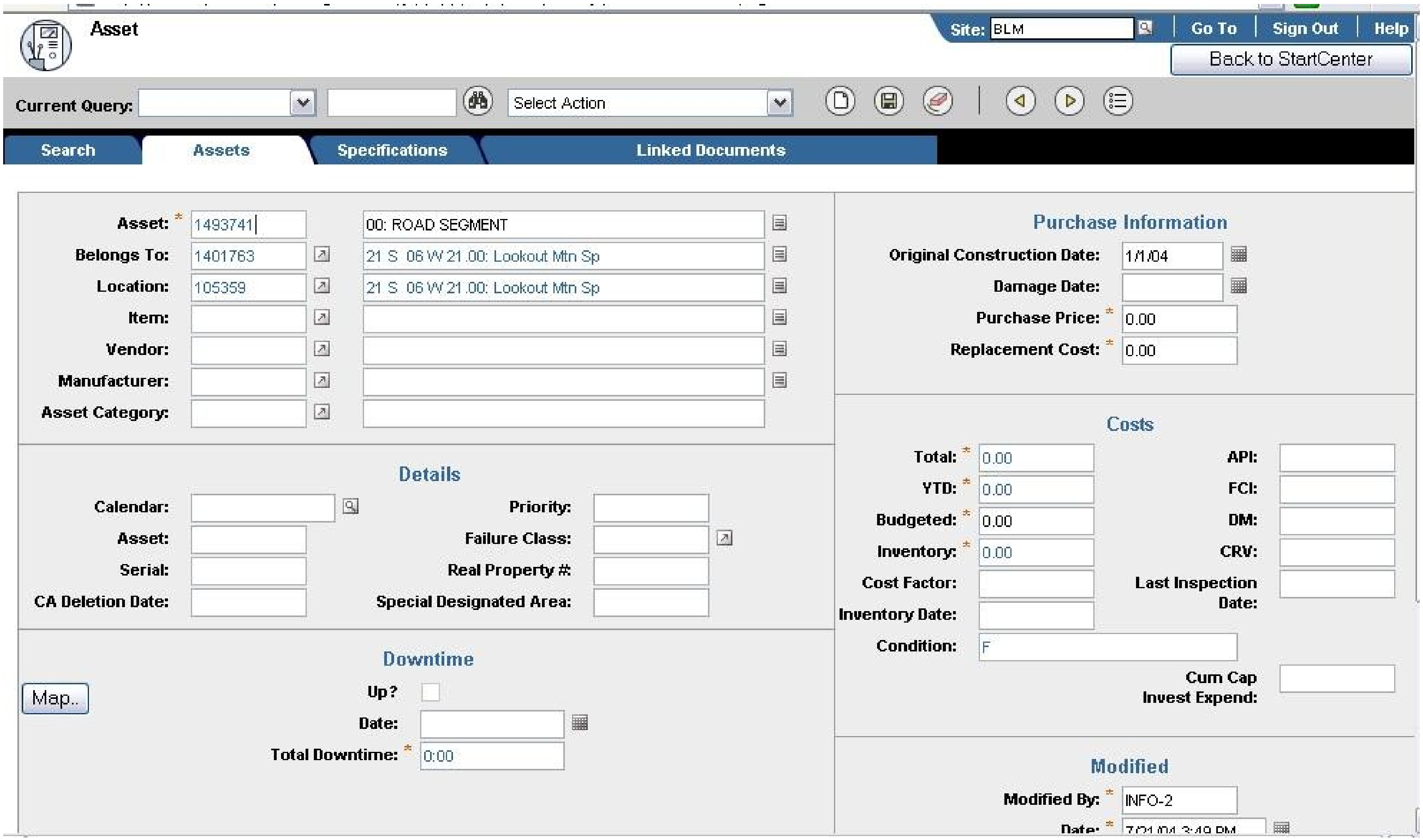
- ○ Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

FAMS


Site: BLM
Go To
Sign Out
Help
Back to StartCenter
Select Action
Search
Assets
Specifications
Linked Documents
Map..

Asset

Current Query:

Asset: * 1493741 — 00: ROAD SEGMENT
Belongs To: 1401763 — 21 S 06 W 21.00: Lookout Mtn Sp
Location: 105359 — 21 S 06 W 21.00: Lookout Mtn Sp
Item:
Vendor:
Manufacturer:
Asset Category:

Details

Calendar:
Asset:
Serial:
CA Deletion Date:
Priority:
Failure Class:
Real Property #:
Special Designated Area:

Downtime

Up? ☐
Date:
Total Downtime: * 0:00

Purchase Information

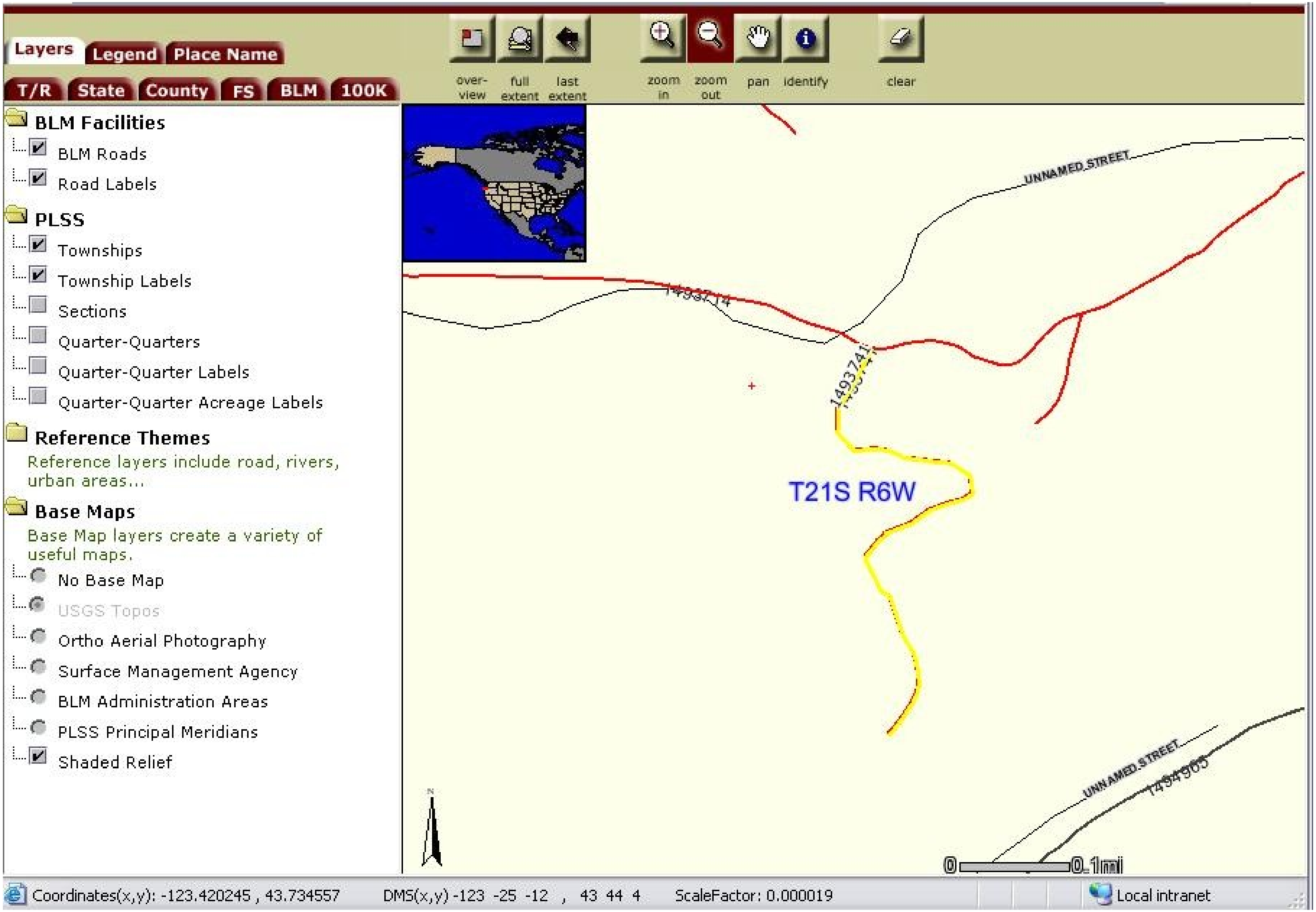
Original Construction Date: 1/1/04
Damage Date:
Purchase Price: * 0.00
Replacement Cost: * 0.00

Costs

Total: * 0.00
YTD: * 0.00
Budgeted: * 0.00
Inventory: * 0.00
Cost Factor:
Inventory Date:
Condition: F
API:
FCI:
DM:
CRV:
Last Inspection Date:
Cum Cap Invest Expend:

Modified

Modified By: * INFO-2
Date: * 7/21/04 3:49 PM


Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
UNNAMED STREET
1493714
1493741
T21S R6W
UNNAMED STREET
1494965
N
0
0.1mi
Local intranet

BLM Facilities

- ☑ BLM Roads
- ☑ Road Labels

PLSS

- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

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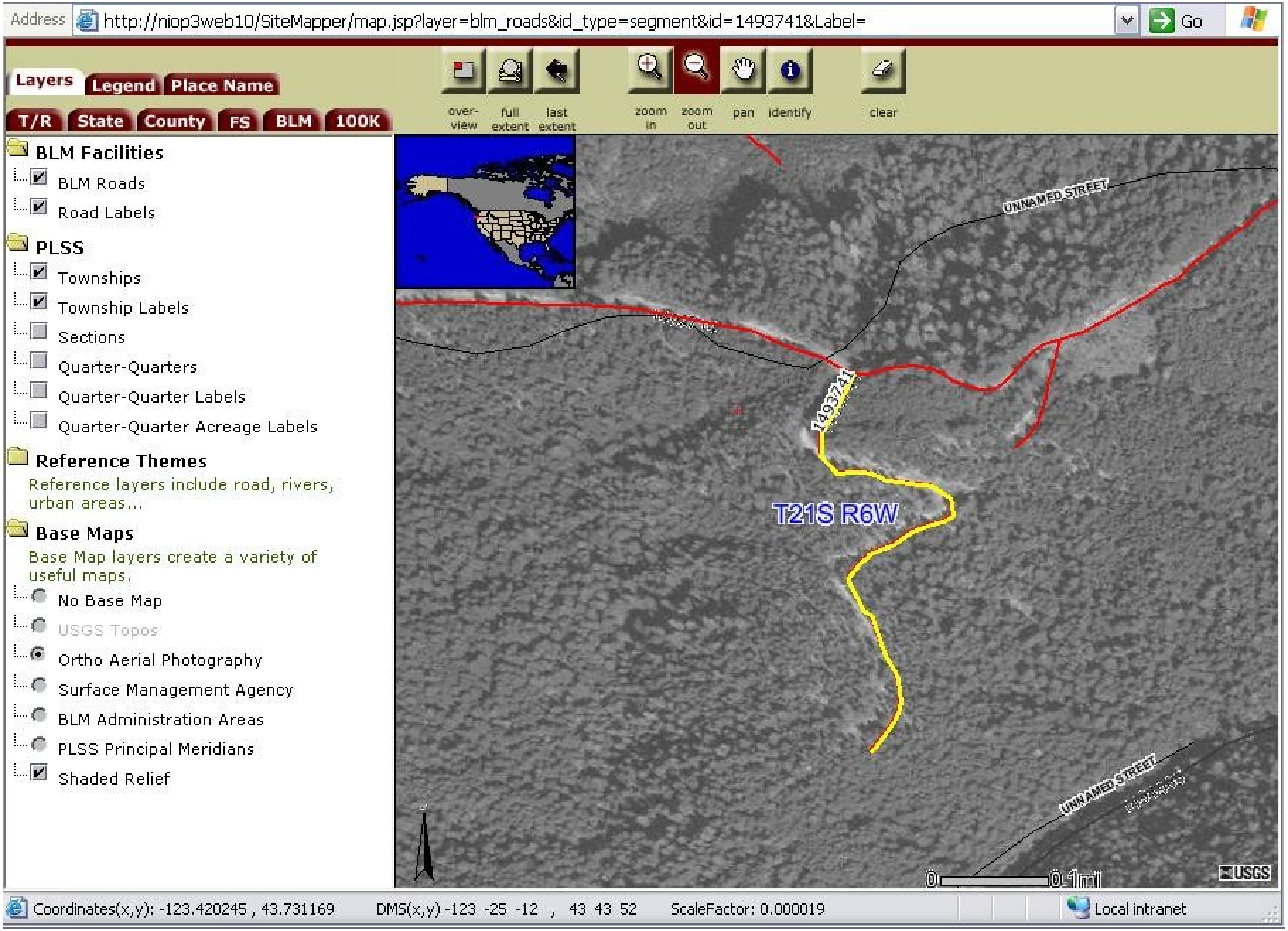
- ● USGS Topos
- ○ Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

Coordinates(x,y): -123.420245 , 43.734557 DMS(x,y) -123 -25 -12 , 43 44 4 ScaleFactor: 0.000019


Address
Go
Layers
Legend
Place Name
T/R
State
County
FS
BLM
100K
over-view
full extent
last extent
zoom in
zoom out
pan
identify
clear
UNNAMED STREET
1493741
T21S R6W
UNNAMED STREET
0
0.1mi
USGS
Local intranet

Address http://niop3web10/SiteMapper/map.jsp?layer=blm_roads&id_type=segment&id=1493741&Label=

BLM Facilities
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

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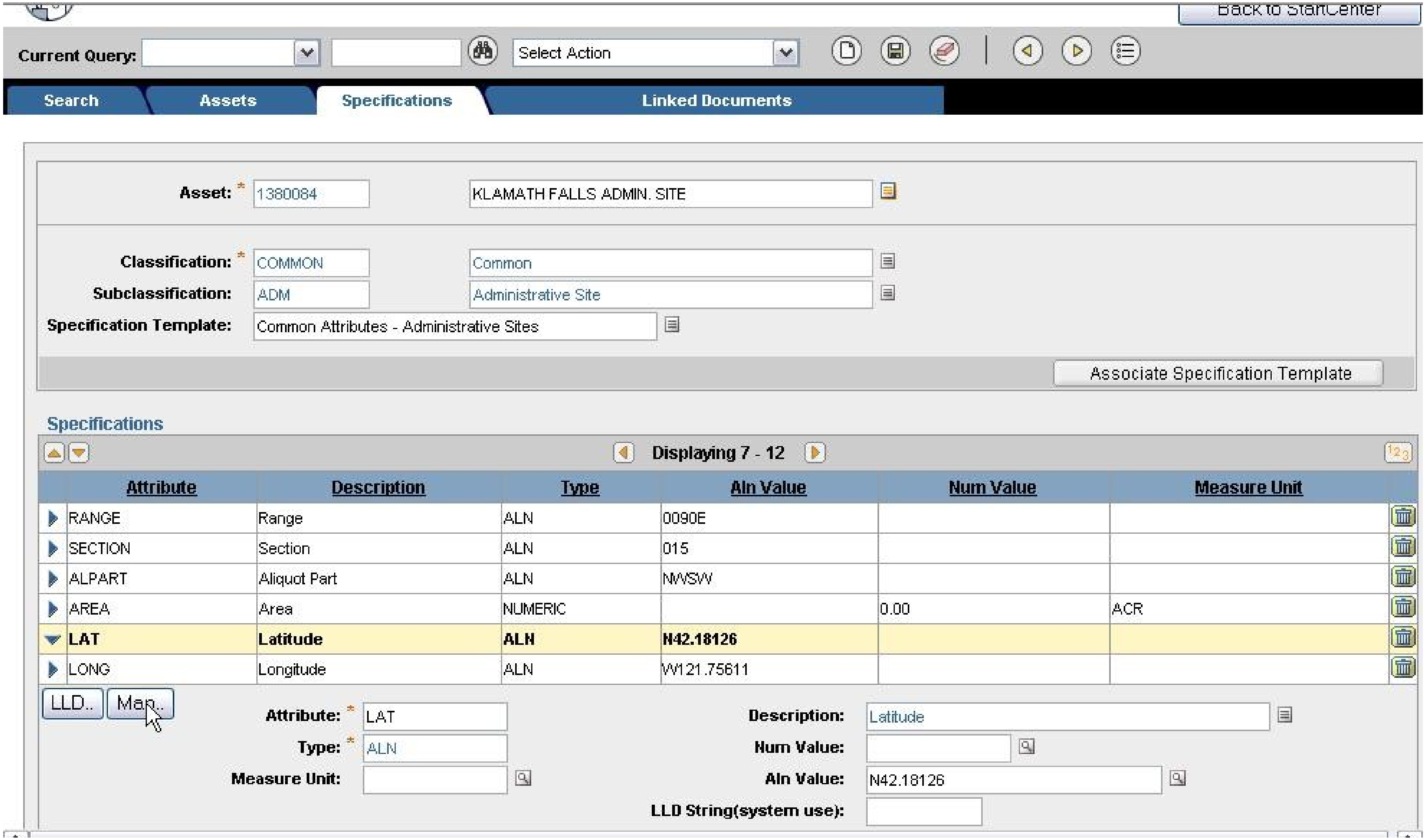
- ○ USGS Topos
- ● Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

Coordinates(x,y): -123.420245 , 43.731169 DMS(x,y) -123 -25 -12 , 43 43 52 ScaleFactor: 0.000019


Back to StartCenter
Current Query:
Select Action
Search
Assets
Specifications
Linked Documents
Associate Specification Template
LLD..
Map..

Asset: * 1380084 KLAMATH FALLS ADMIN. SITE

Classification: * COMMON Common

Subclassification: ADM Administrative Site

Specification Template: Common Attributes - Administrative Sites

Specifications

Displaying 7 - 12

Attribute	Description	Type	Aln Value	Num Value	Measure Unit
RANGE	Range	ALN	0090E		
SECTION	Section	ALN	015		
ALPART	Aliquot Part	ALN	NWSW		
AREA	Area	NUMERIC		0.00	ACR
LAT	**Latitude**	**ALN**	**N42.18126**		
LONG	Longitude	ALN	W121.75611		

Attribute: * LAT

Type: * ALN

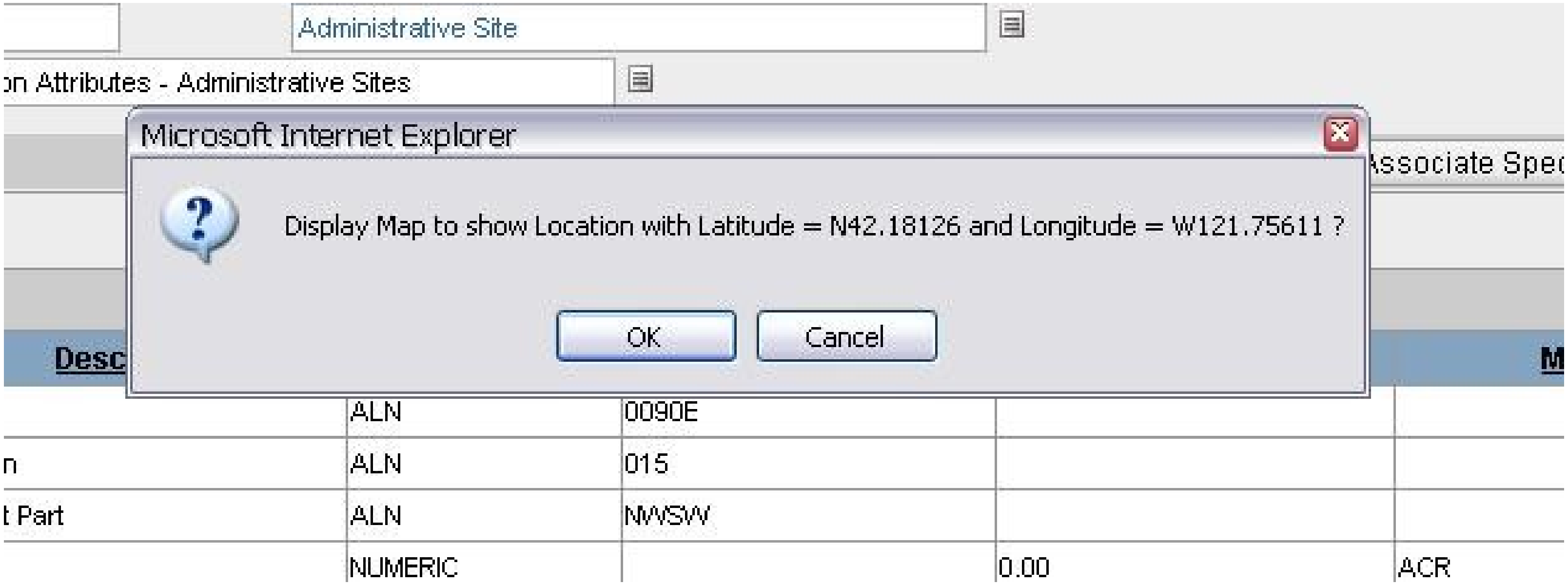
Measure Unit:

Description: Latitude

Num Value:

Aln Value: N42.18126

LLD String(system use):


Microsoft Internet Explorer
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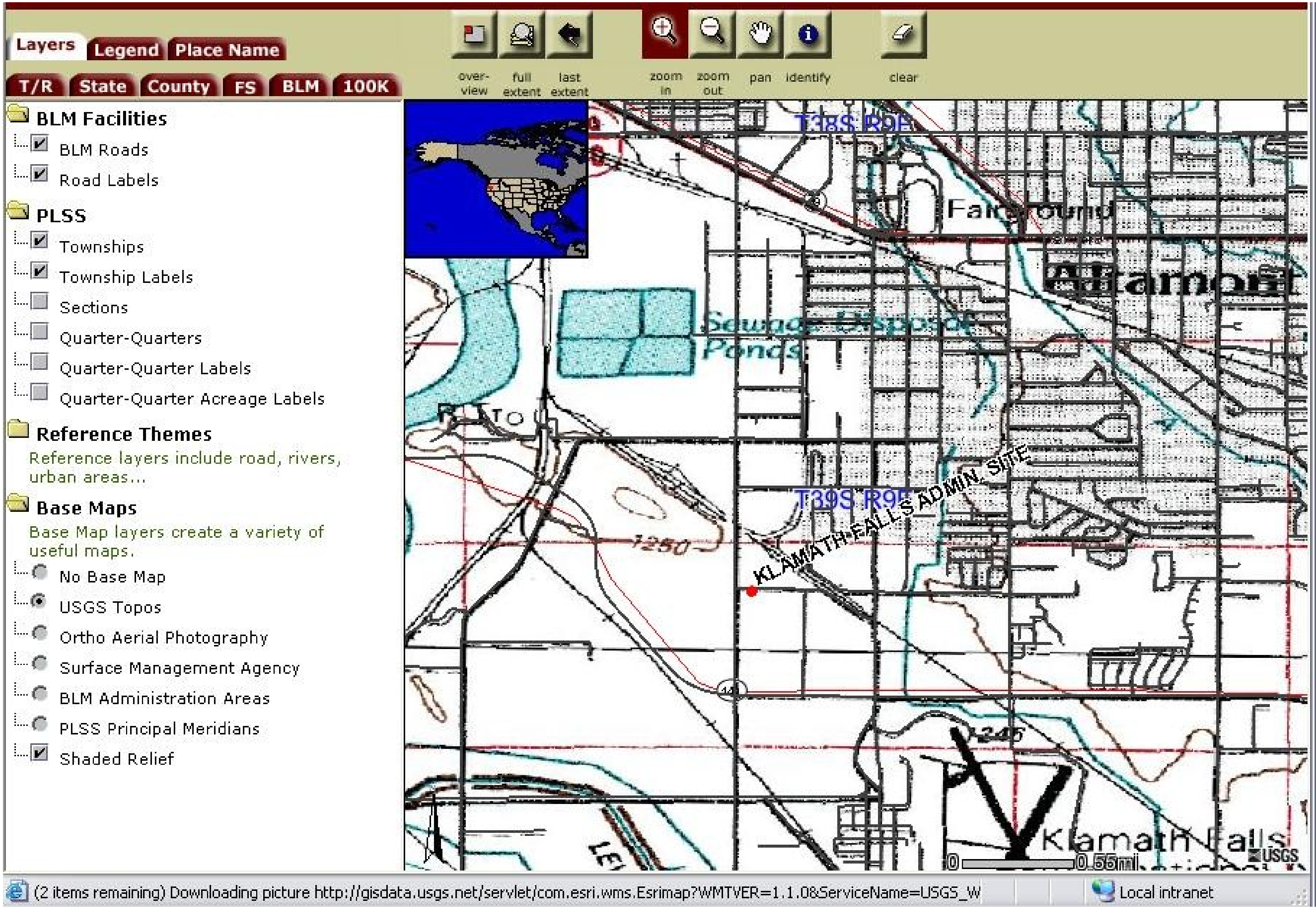
ssociate Spec

Administrative Site

on Attributes - Administrative Sites

Display Map to show Location with Latitude = N42.18126 and Longitude = W121.75611 ?

Desc				M
	ALN	0090E		
n	ALN	015		
t Part	ALN	NWSW		
	NUMERIC		0.00	ACR


Layers
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Place Name
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T38S R9E
Fairground
Altamont
Sewage Disposal Ponds
T39S R9E
KLAMATH FALLS ADMIN. SITE
1250
1246
Klamath Falls
0
0.55mi
USGS

BLM Facilities
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

Reference layers include road, rivers, urban areas...

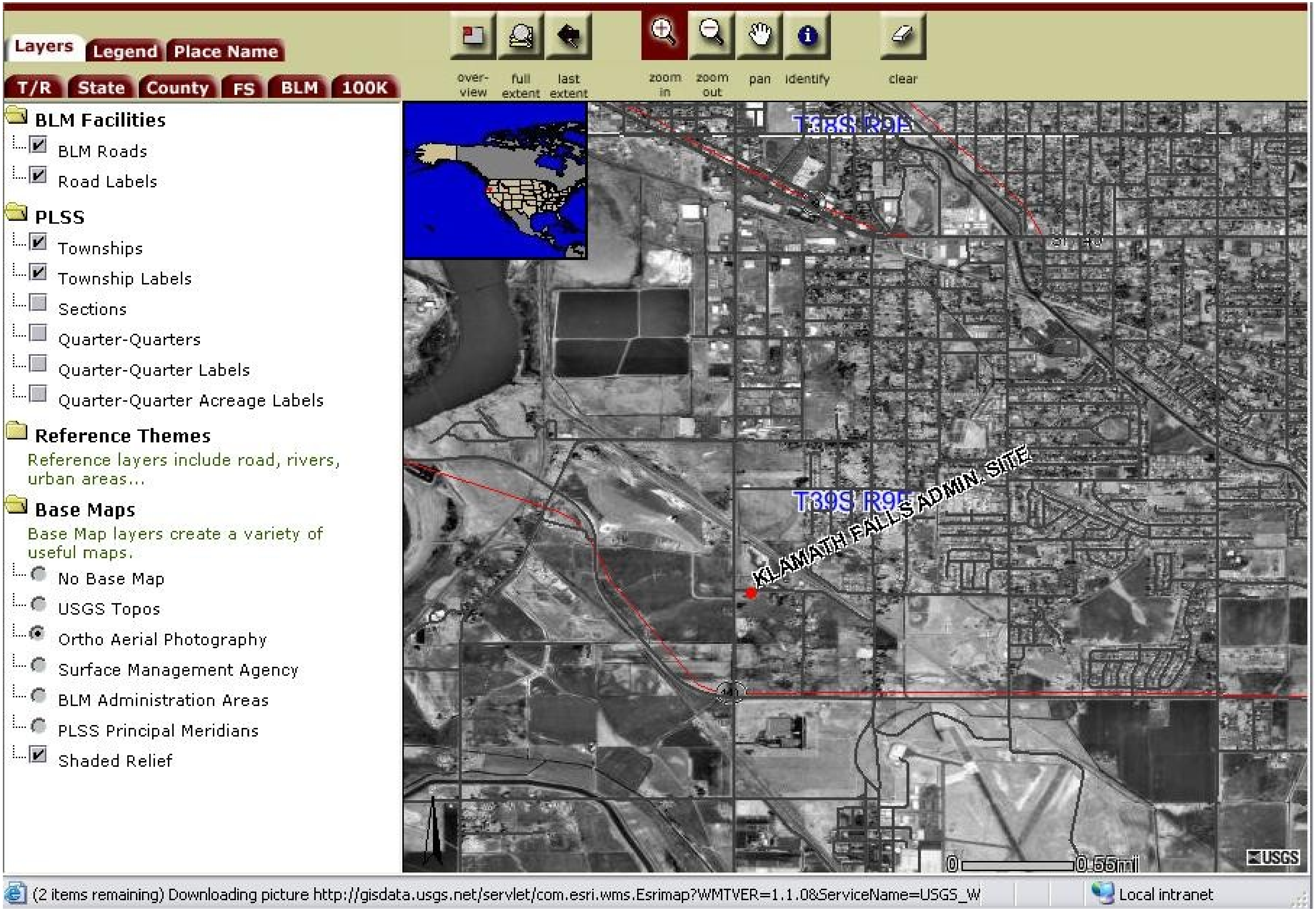
Base Maps

Base Map layers create a variety of useful maps.

- ○ No Base Map
- ● USGS Topos
- ○ Ortho Aerial Photography
- ○ Surface Management Agency
- ○ BLM Administration Areas
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

(2 items remaining) Downloading picture http://gisdata.usgs.net/servlet/com.esri.wms.Esrimap?WMTVER=1.1.0&ServiceName=USGS_W

Local intranet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T39S R9E
KLAMATH FALLS ADMIN. SITE
140
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USGS

BLM Facilities

- ☑ BLM Roads
- ☑ Road Labels

PLSS

- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

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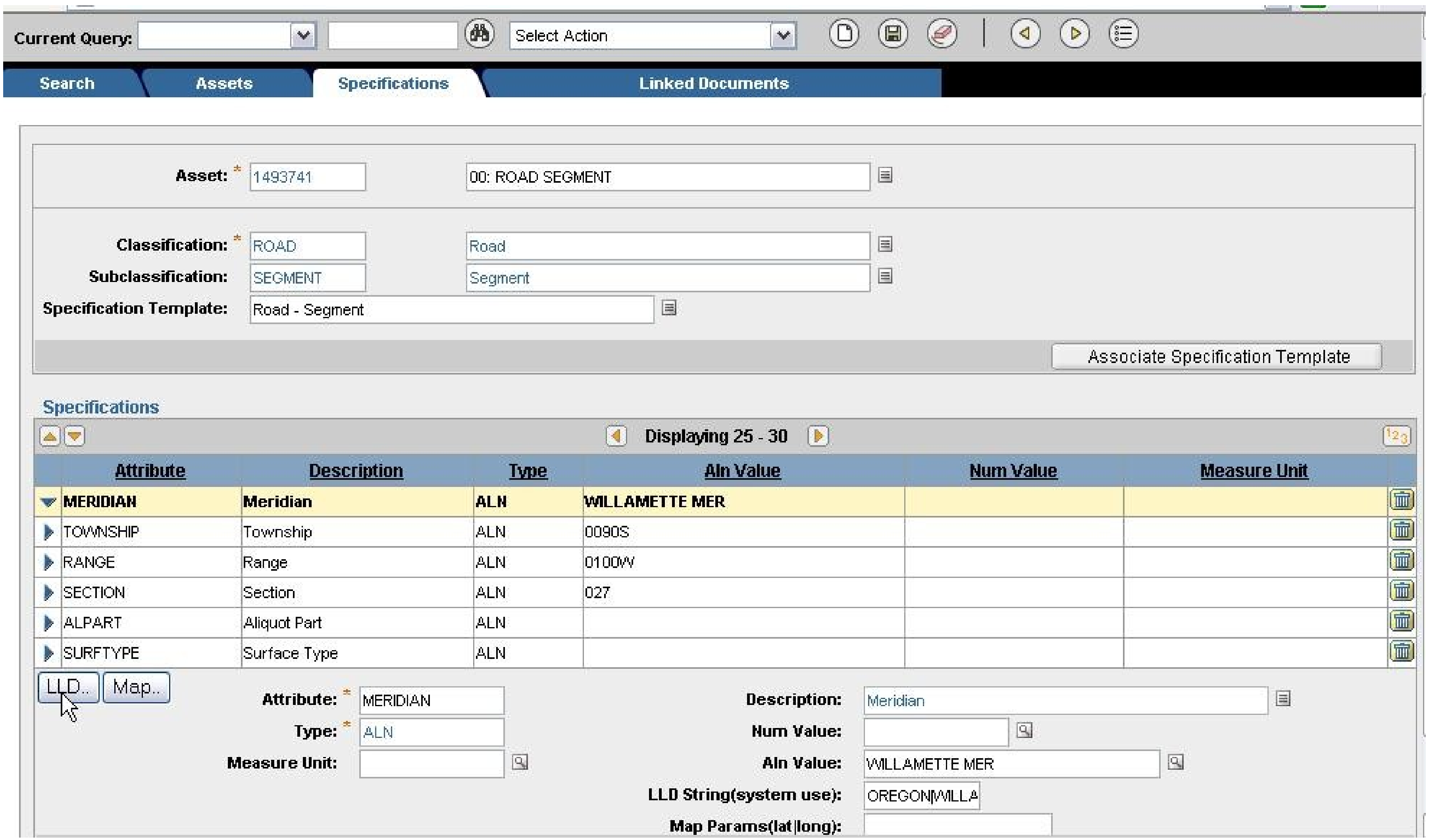
- ○ PLSS Principal Meridians
- ☑ Shaded Relief

(2 items remaining) Downloading picture http://gisdata.usgs.net/servlet/com.esri.wms.Esrimap?WMTVER=1.1.0&ServiceName=USGS_W

Local intranet


Current Query:
Select Action
Search
Assets
Specifications
Linked Documents
Associate Specification Template
LLD..
Map..

Asset: * 1493741 00: ROAD SEGMENT

Classification: * ROAD Road

Subclassification: SEGMENT Segment

Specification Template: Road - Segment

Specifications

Displaying 25 - 30

Attribute	Description	Type	Aln Value	Num Value	Measure Unit
MERIDIAN	**Meridian**	**ALN**	**WILLAMETTE MER**		
TOWNSHIP	Township	ALN	0090S		
RANGE	Range	ALN	0100W		
SECTION	Section	ALN	027		
ALPART	Aliquot Part	ALN			
SURFTYPE	Surface Type	ALN			

Attribute: * MERIDIAN

Type: * ALN

Measure Unit:

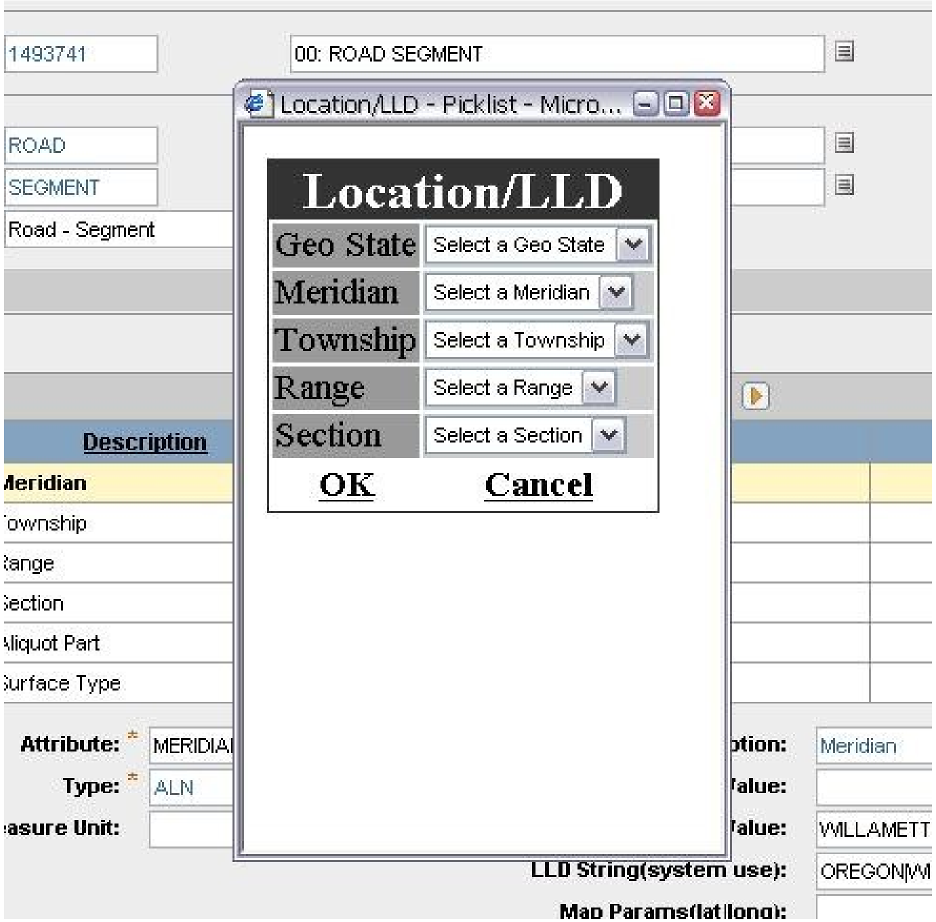
Description: Meridian

Num Value:

Aln Value: WILLAMETTE MER

LLD String(system use): OREGON|WILLA

Map Params(lat|long):



1493741

00: ROAD SEGMENT

ROAD

SEGMENT

Road - Segment

Location/LLD - Picklist - Micro...

Location/LLD

Geo State: Select a Geo State

Meridian: Select a Meridian

Township: Select a Township

Range: Select a Range

Section: Select a Section

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Cancel
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Attribute: * MERIDIAI

Type: * ALN

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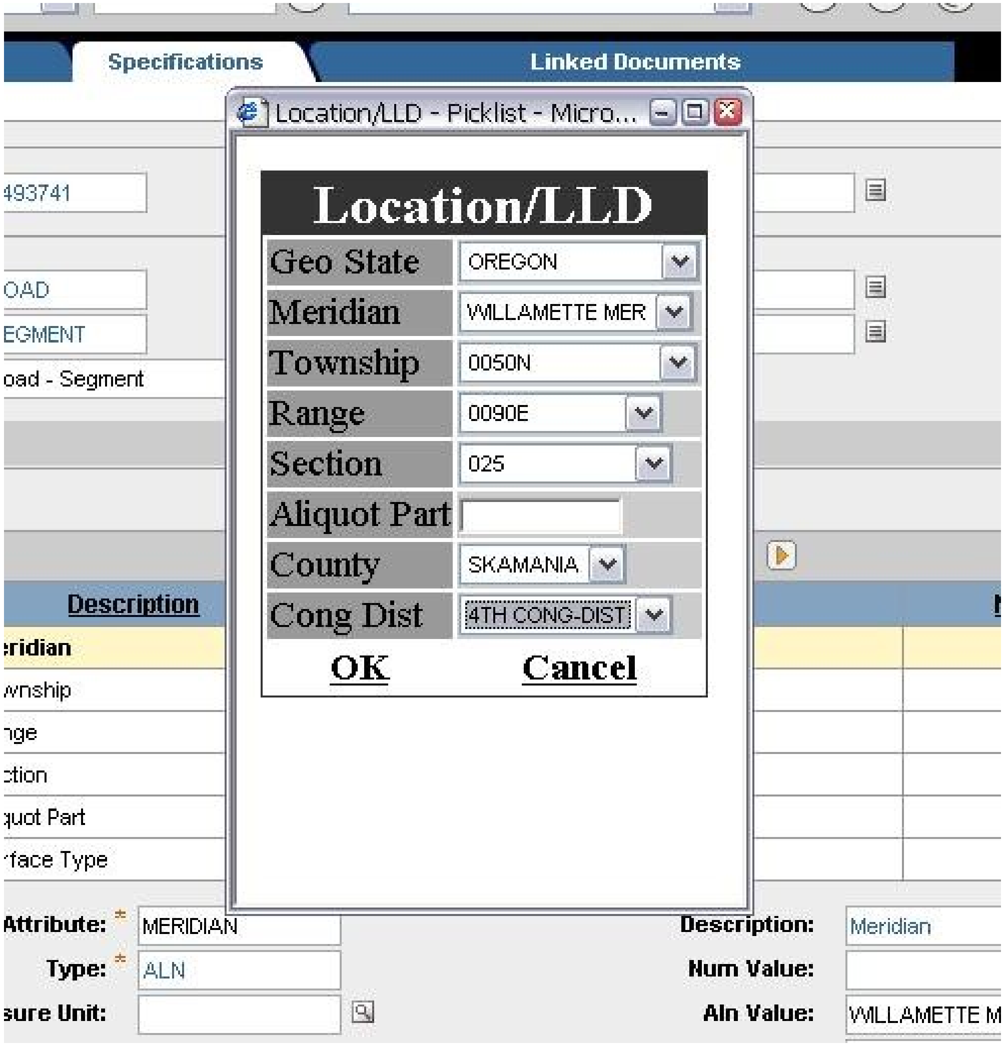
LLD String(system use): OREGON|WI

Map Params(lat|long):


Specifications
Linked Documents
Location/LLD - Picklist - Micro...
Description
OK
Cancel

Location/LLD

Geo State	OREGON
Meridian	WILLAMETTE MER
Township	0050N
Range	0090E
Section	025
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County	SKAMANIA
Cong Dist	4TH CONG-DIST

493741

OAD

EGMENT

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Attribute: * MERIDIAN

Type: * ALN

sure Unit:

Description: Meridian

Num Value:

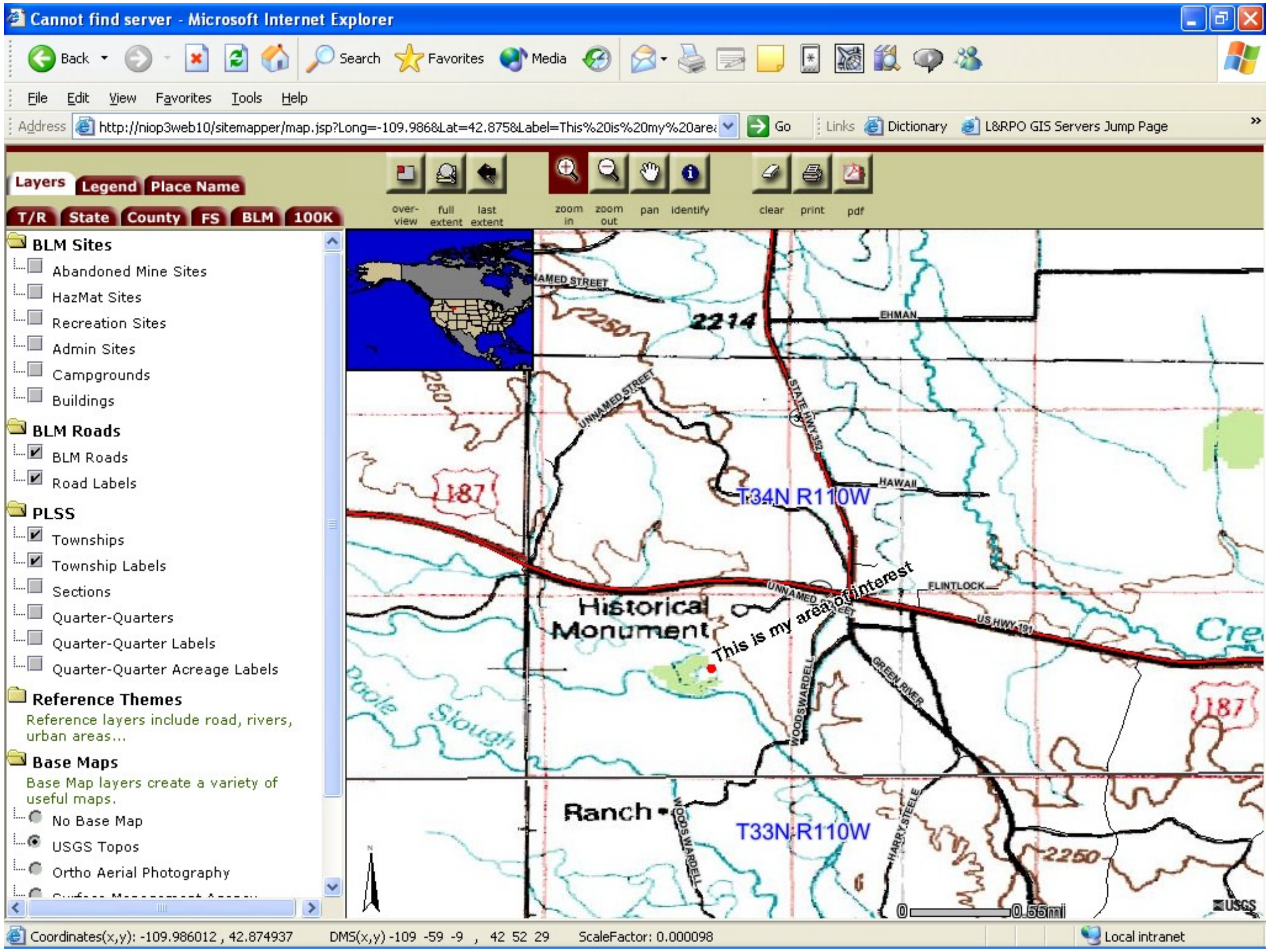
Aln Value: WILLAMETTE M

Sitemapper

- Soon available through www.geocommunicator.gov

- Allows you to pass a geographic coordinate and display the location with BLM standard spatial data themes.

Direct Spatial Query for 42.875N 109.986W


Cannot find server - Microsoft Internet Explorer
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Favorites
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Address
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L&RPO GIS Servers Jump Page
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zoom in
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pan
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print
pdf
UNNAMED STREET
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2214
EHMAN
250
UNNAMED STREET
STATE HWY 352
187
HAWAII
T34N R110W
UNNAMED
This is my area of interest
FLINTLOCK
US HWY 191
Historical Monument
Cre
Poole Slough
WOODSWARDELL
GREEN RIVER
187
Ranch
WOODS WARDELL
T33N R110W
HARRY STEELE
2250
0
0.55mi
USGS

http://niop3web10/sitemapper/map.jsp?Long=-109.986&Lat=42.875&Label=This%20is%20my%20are

BLM Sites
- ☐ Abandoned Mine Sites
- ☐ HazMat Sites
- ☐ Recreation Sites
- ☐ Admin Sites
- ☐ Campgrounds
- ☐ Buildings

BLM Roads
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes

Reference layers include road, rivers, urban areas...

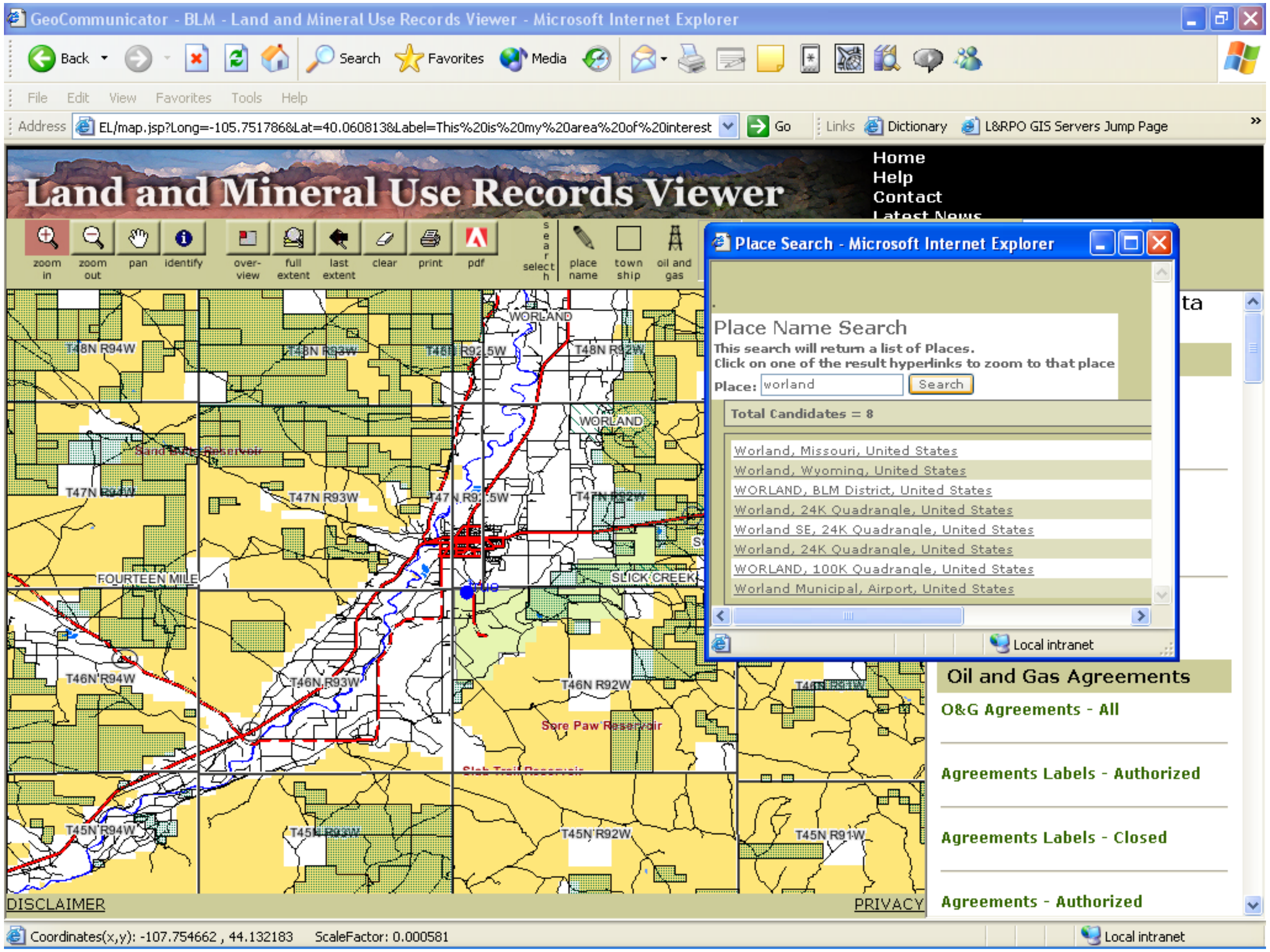
Base Maps

Base Map layers create a variety of useful maps.

- ○ No Base Map
- ● USGS Topos
- ○ Ortho Aerial Photography

Coordinates(x,y): -109.986012 , 42.874937 DMS(x,y) -109 -59 -9 , 42 52 29 ScaleFactor: 0.000098 Local intranet

Place Name Search & Zoom



GeoCommunicator - BLM - Land and Mineral Use Records Viewer - Microsoft Internet Explorer

Address: EL/map.jsp?Long=-105.751786&Lat=40.060813&Label=This%20is%20my%20area%20of%20interest

Place Search - Microsoft Internet Explorer

Place Name Search

This search will return a list of Places.
Click on one of the result hyperlinks to zoom to that place

Place: worland

Total Candidates = 8

- Worland, Missouri, United States
- Worland, Wyoming, United States
- WORLAND, BLM District, United States
- Worland, 24K Quadrangle, United States
- Worland SE, 24K Quadrangle, United States
- Worland, 24K Quadrangle, United States
- WORLAND, 100K Quadrangle, United States
- Worland Municipal, Airport, United States

Oil and Gas Agreements

- O&G Agreements - All
- Agreements Labels - Authorized
- Agreements Labels - Closed
- Agreements - Authorized

Coordinates(x,y): -107.754662 , 44.132183 ScaleFactor: 0.000581

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oil and gas
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T48N R93W
T48N R92.5W
T48N R92W
WORLAND
Sand Mesa Reservoir
T47N R94W
T47N R93W
T47N R92.5W
T47N R92W
FOURTEEN MILE
SLICK CREEK
T46N R94W
T46N R93W
T46N R92W
Sore Paw Reservoir
Slab Trail Reservoir
T45N R94W
T45N R93W
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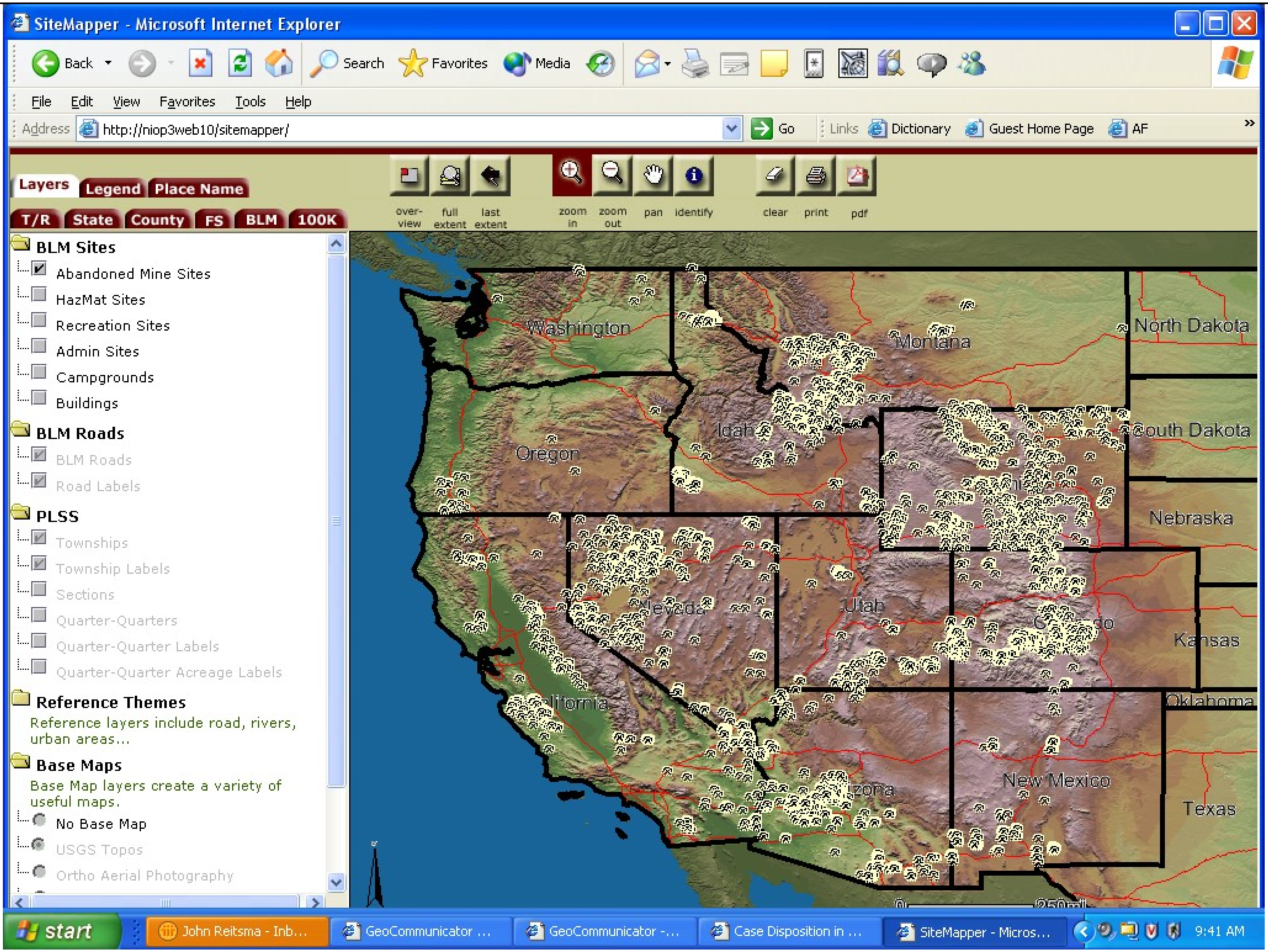
T45N R91W
DISCLAIMER
PRIVACY
Local intranet

Abandoned Mine Sites


SiteMapper - Microsoft Internet Explorer
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John Reitsma - Inb...
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Address: http://niop3web10/sitemapper/

BLM Sites
- ☑ Abandoned Mine Sites
- ☐ HazMat Sites
- ☐ Recreation Sites
- ☐ Admin Sites
- ☐ Campgrounds
- ☐ Buildings

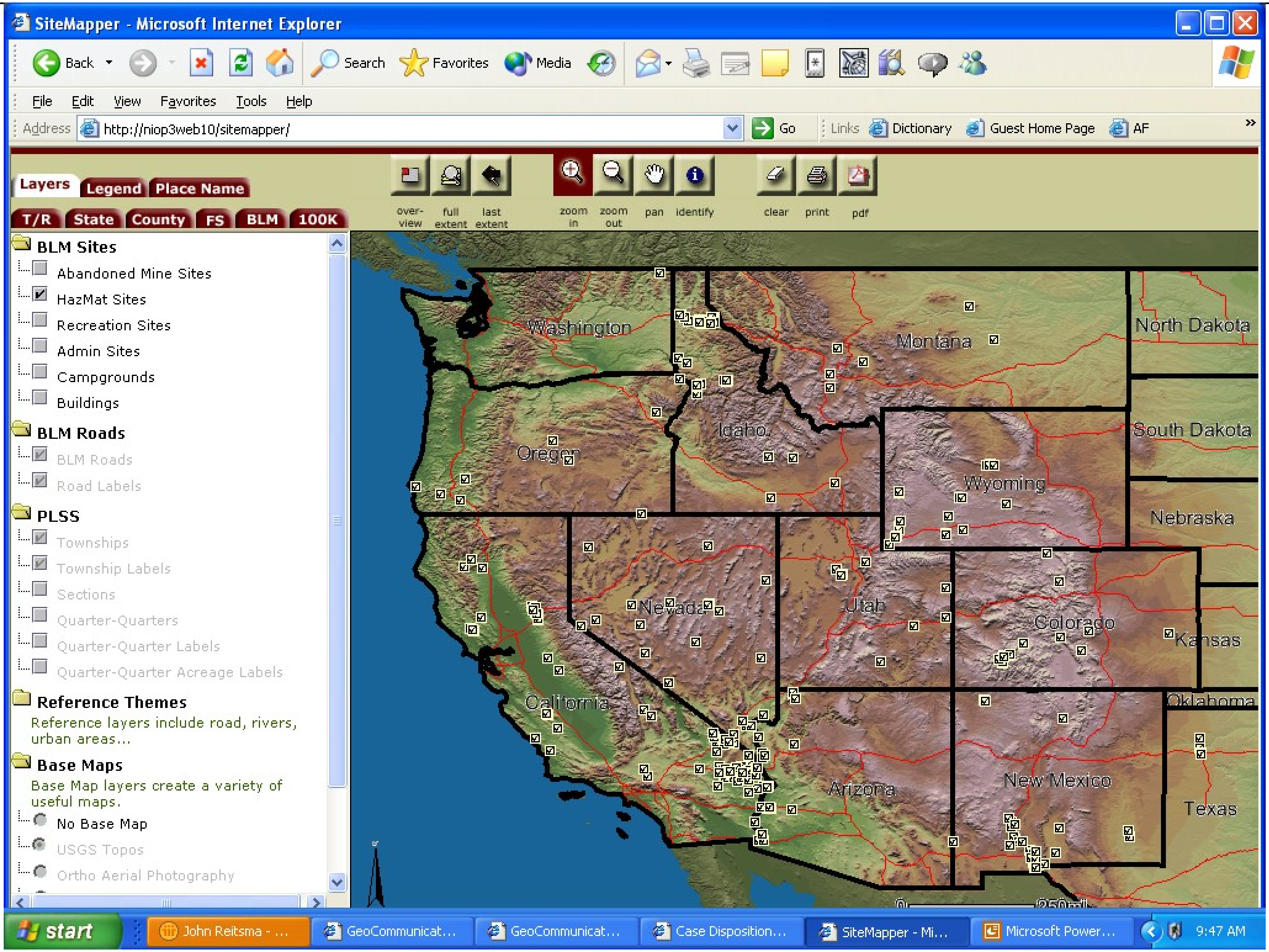
BLM Roads
- ☑ BLM Roads
- ☑ Road Labels

PLSS
- ☑ Townships
- ☑ Township Labels
- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

Reference Themes
Reference layers include road, rivers, urban areas...

Base Maps
Base Map layers create a variety of useful maps.
- ○ No Base Map
- ● USGS Topos
- ○ Ortho Aerial Photography

Hazmat Sites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John Reitsma - ...
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Microsoft Power...
9:47 AM

BLM Sites
- ☐ Abandoned Mine Sites
- ☑ HazMat Sites
- ☐ Recreation Sites
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BLM Roads
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- ☐ Quarter-Quarter Acreage Labels

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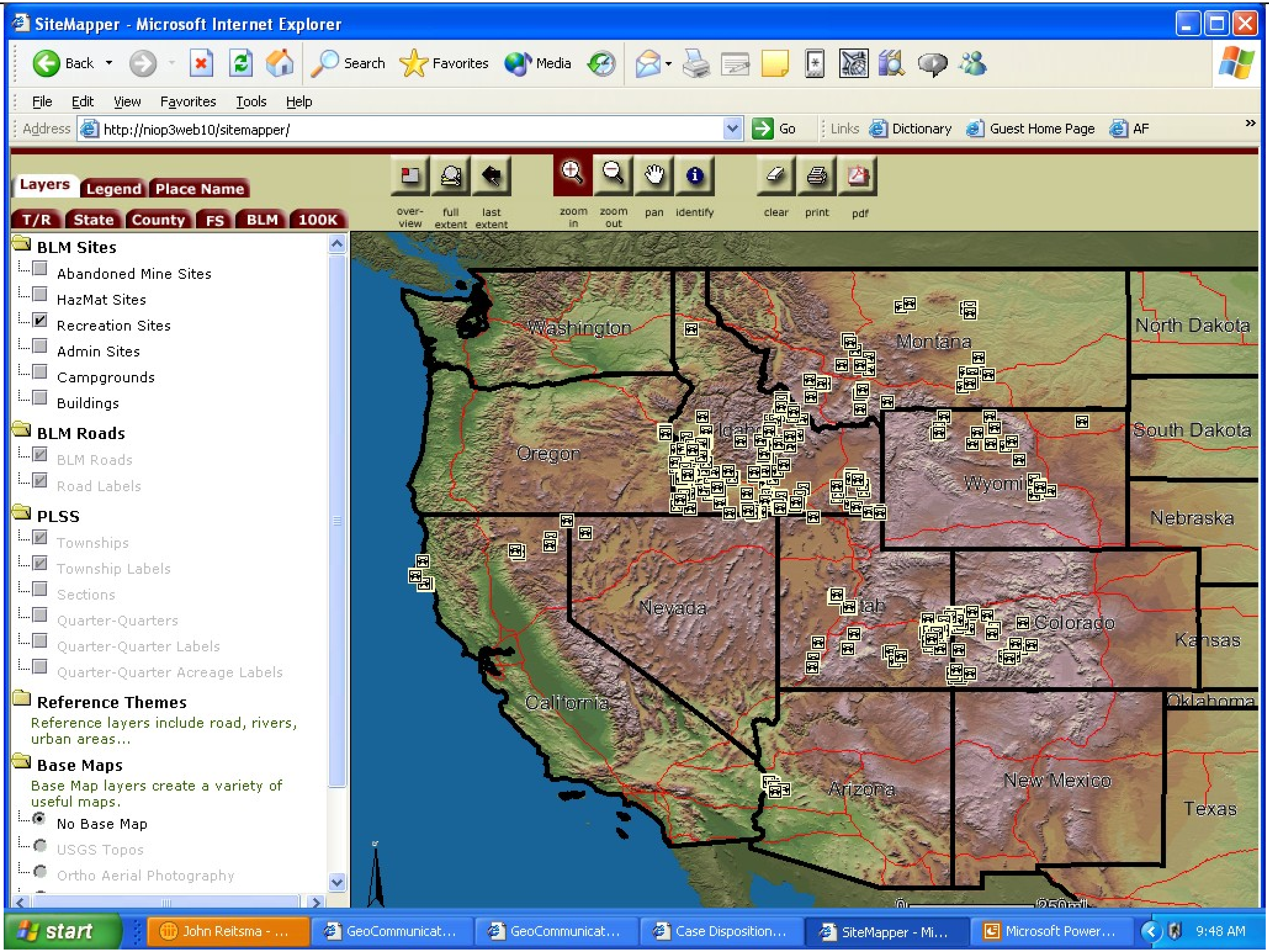
- ● USGS Topos
- ○ Ortho Aerial Photography

Recreation Sites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SiteMapper - Mi...
Microsoft Power...
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BLM Sites
- ☐ Abandoned Mine Sites
- ☐ HazMat Sites
- ☑ Recreation Sites
- ☐ Admin Sites
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- ☐ Buildings

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PLSS
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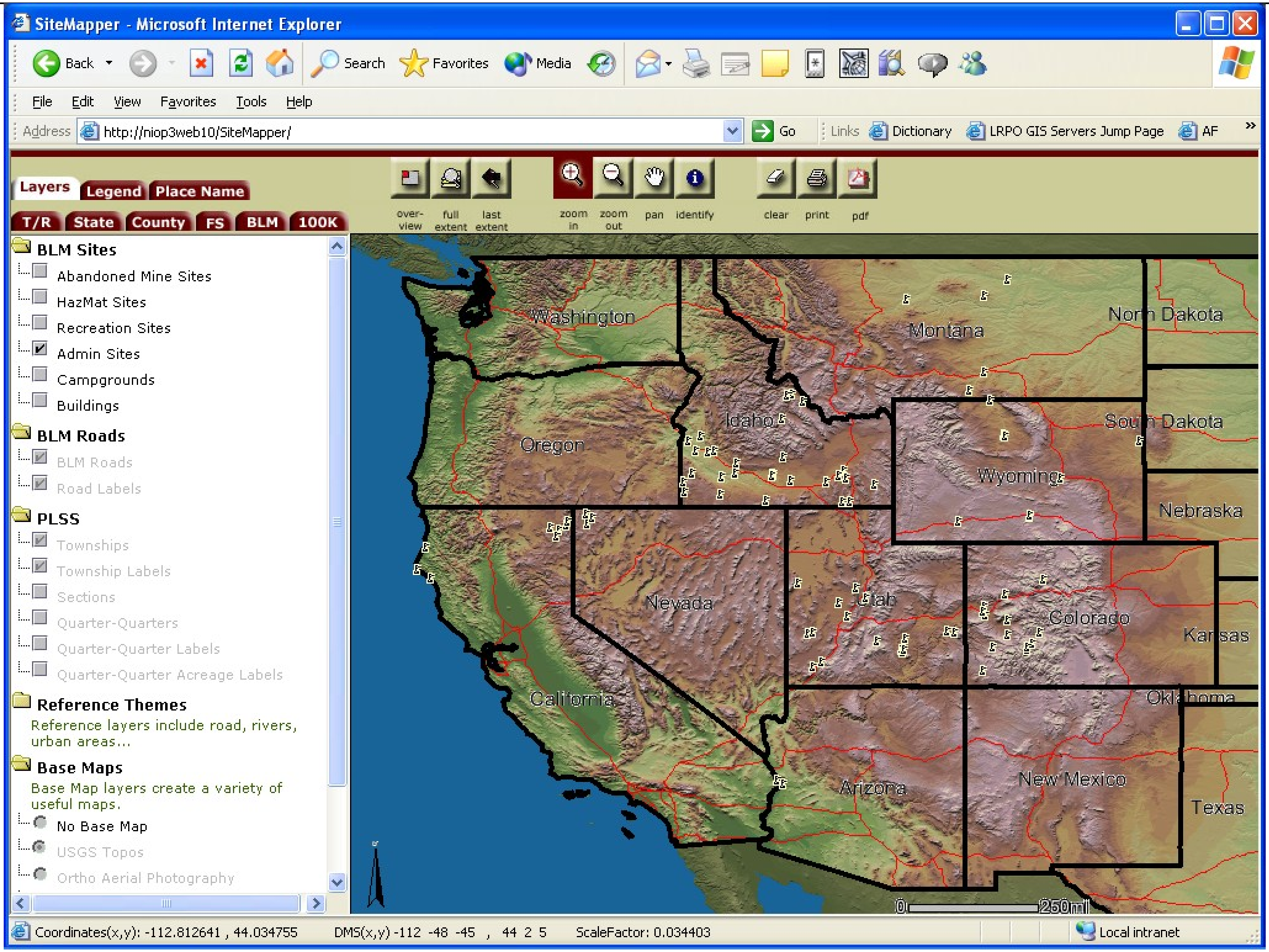
- ○ Ortho Aerial Photography

Admin Sites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Oklahoma
Arizona
New Mexico
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Address: http://niop3web10/SiteMapper/

BLM Sites

- ☐ Abandoned Mine Sites
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- ☐ Recreation Sites
- ☑ Admin Sites
- ☐ Campgrounds
- ☐ Buildings

BLM Roads

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- ☐ Quarter-Quarter Labels
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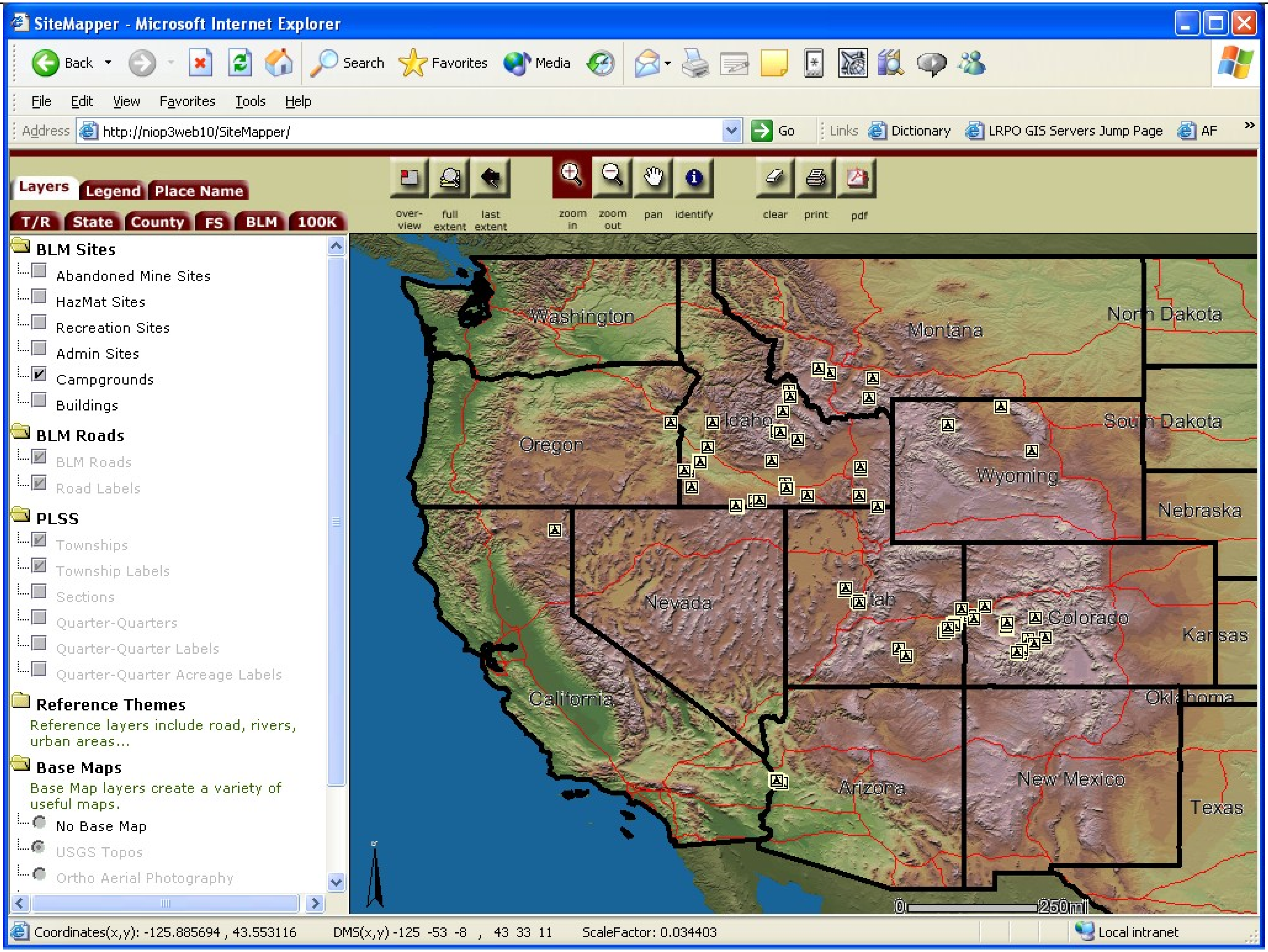
- ○ Ortho Aerial Photography

Coordinates(x,y): -112.812641 , 44.034755 DMS(x,y) -112 -48 -45 , 44 2 5 ScaleFactor: 0.034403 Local intranet

Campgrounds


SiteMapper - Microsoft Internet Explorer
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http://niop3web10/SiteMapper/

BLM Sites
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- ☐ Sections
- ☐ Quarter-Quarters
- ☐ Quarter-Quarter Labels
- ☐ Quarter-Quarter Acreage Labels

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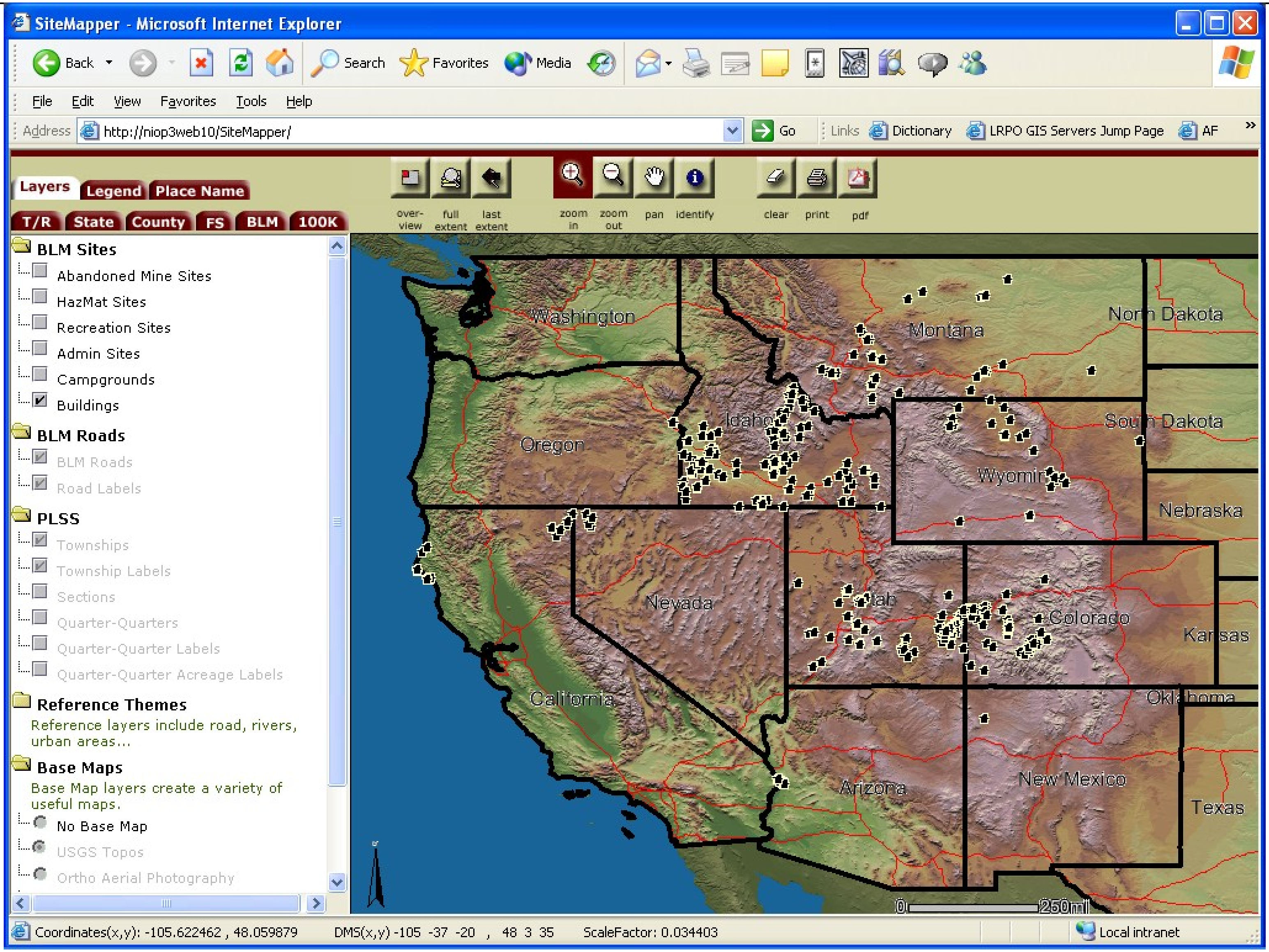
- ○ Ortho Aerial Photography

Coordinates(x,y): -125.885694 , 43.553116   DMS(x,y) -125 -53 -8 , 43 33 11   ScaleFactor: 0.034403

Buildings


SiteMapper - Microsoft Internet Explorer
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BLM Sites
- ☐ Abandoned Mine Sites
- ☐ HazMat Sites
- ☐ Recreation Sites
- ☐ Admin Sites
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BLM Roads
- ☑ BLM Roads
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- ☑ Townships
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Reference Themes

Reference layers include road, rivers, urban areas...

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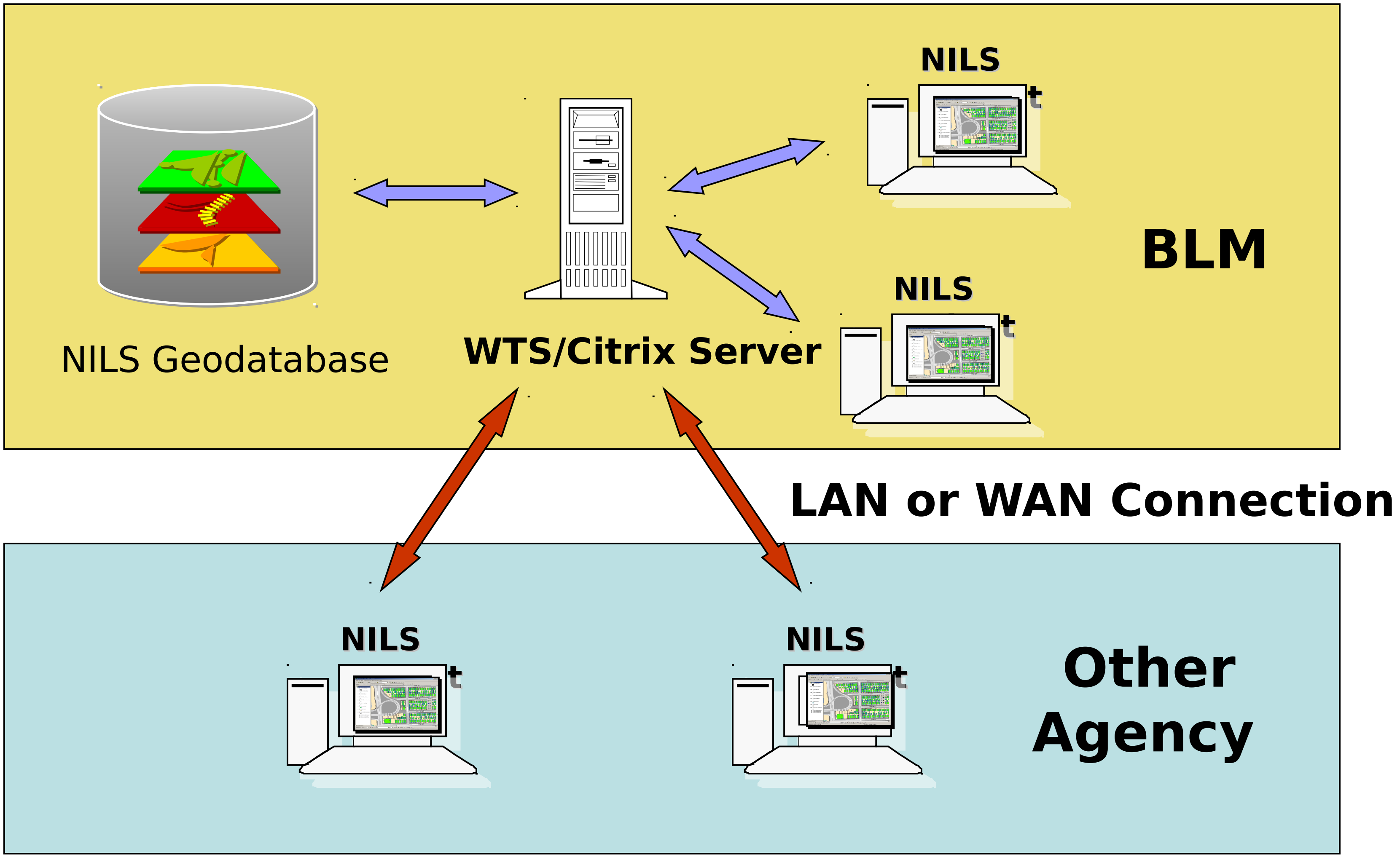
- ● USGS Topos
- ○ Ortho Aerial Photography

Coordinates(x,y): -105.622462 , 48.059879 DMS(x,y) -105 -37 -20 , 48 3 35 ScaleFactor: 0.034403 Local intranet

Interagency Participation

BELMONT CREEK
DAY USE ONLY

Shared Infrastructure Model



NILS

BLM

NILS Geodatabase

WTS/Citrix Server

NILS

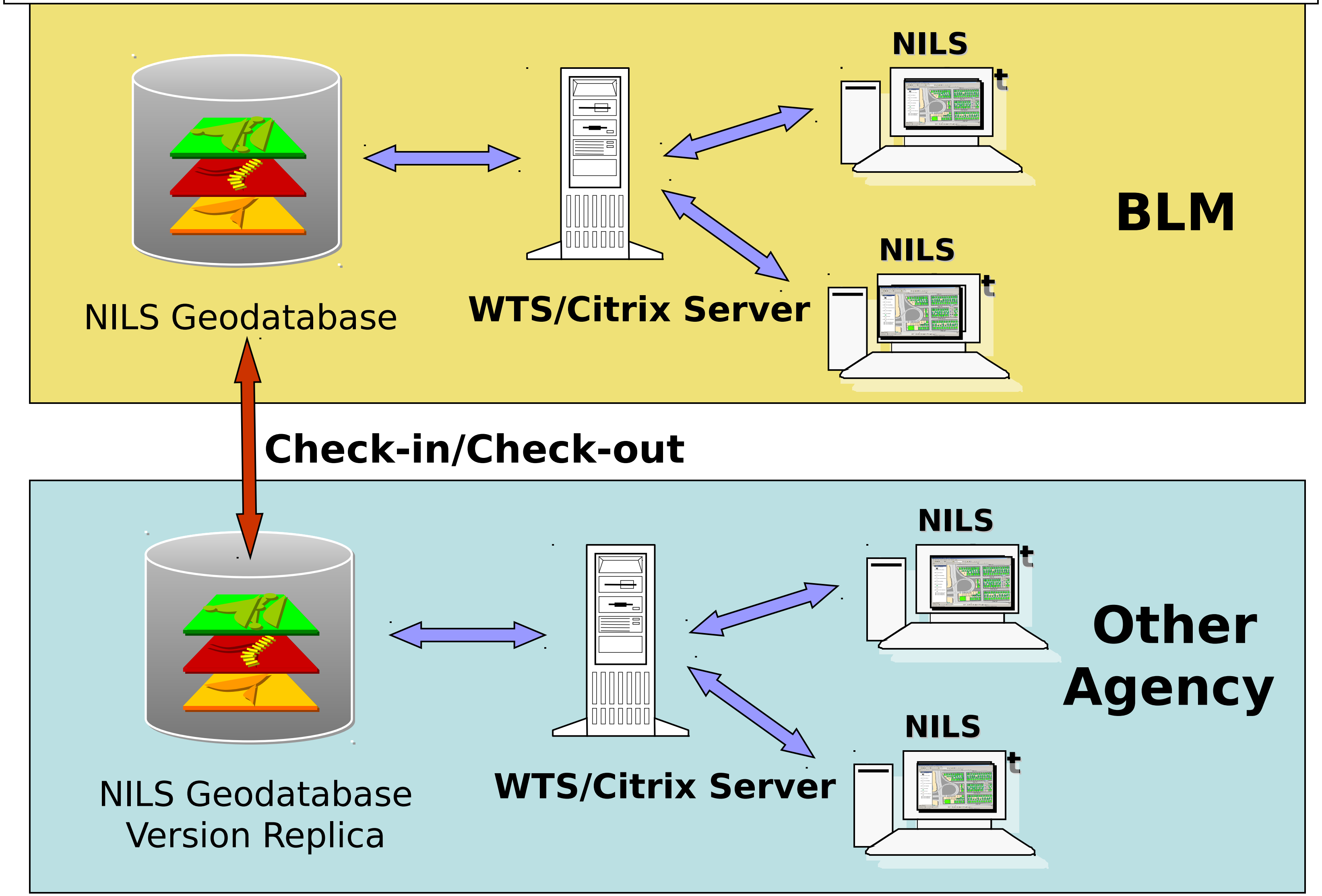
LAN or WAN Connection

NILS

NILS

Other Agency

Shared Data / Separate Infrastructure Model



NILS

NILS

BLM

NILS Geodatabase

WTS/Citrix Server

Check-in/Check-out

NILS

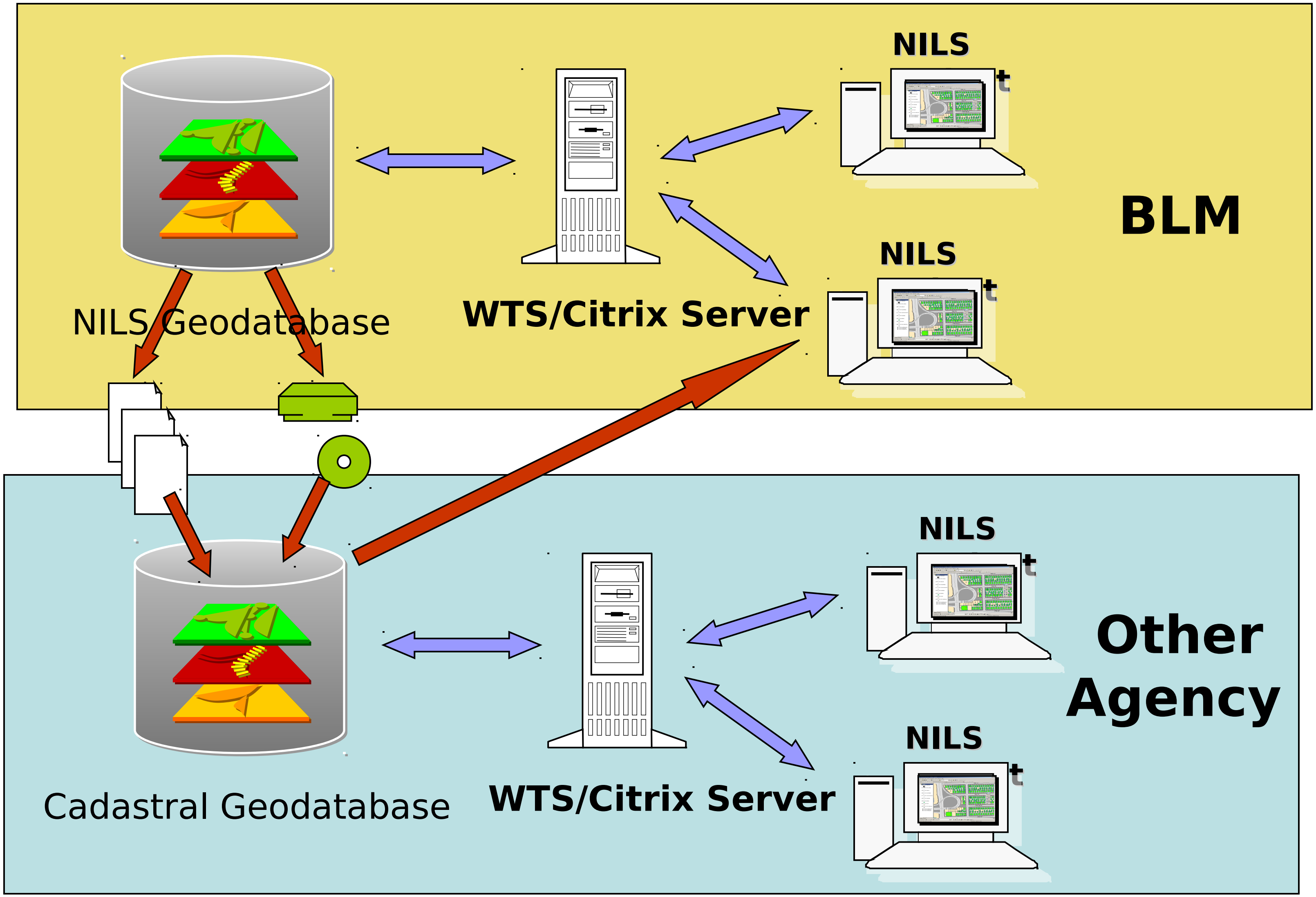
NILS

Other Agency

NILS Geodatabase
Version Replica

WTS/Citrix Server

Traditional Data Sharing Model



NILS

NILS

BLM

NILS Geodatabase

WTS/Citrix Server

NILS

NILS

Other Agency

Cadastral Geodatabase

WTS/Citrix Server

Practical Considerations

- Interagency agreements will need to be developed
- Technical Support
- Training
- Security

QUESTIONS

For additional Information

www.blm.gov/nils

www.geocommunicator.gov

www.geocommunicator.gov/lsi

Streaming Service:

Map Service:http://www.lsi.blm.gov

Map Service: BLM LSIS